Sheesley, John

From: Sheesley, John
Sent: Friday, March 04, 2016 4:04 PM
To: 'daniel.cleveland@ky.gov'
Subject: Lee's Lane Landfill Site - MSD Cap

Daniel: I called your office just now but found you're out, so I'm sending a quick email to let you know that the EPA is postponing its decision as to whether MSD's expenses have hit the cap set forth in its settlement agreement for the Lee's Lane Landfill Site. After talking with the PRP group some more about this issue, we'd prefer not to upset the working relationship that the parties have established or the progress that's being made on site issues now. I expect we will take up the cap issue again in the future, and we'll seek your input again at that time. If you have any questions, feel free to give me a call. Thank you.

John P. Sheesley
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303
404-562-8139 (P)
404-562-9486 (F)
sheesley.john@epa.gov

EPA takes a position. In the documents that EPA released in response to your FOIA request, you've probably seen that MSD believes it has met its cap.

EPA plans to consider whether MSD's expenditures satisfy the cap, so if the PRP Group or any of its members would like to submit comments or statements on the matter, please send them to me by Tuesday, March 8, 2016. If you'd like to schedule a call or meeting to discuss your submission, we'd be glad to discuss options for scheduling that too.

Thank you.

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Atlanta, GA 30303
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404-562-9486 (F)
sheesley.john@epa.gov

Sheesley, John

From: Sheesley, John
Sent: Friday, March 04, 2016 4:05 PM
To: 'Friedman, Heidi'
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Yes, we've decided to postpone consideration of this question until a later time. We'll let you know when we take it up again.

John P. Sheesley
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303
404-562-8139 (P)
404-562-9486 (F)
sheesley.john@epa.gov

From: Friedman, Heidi [mailto:Heidi.Friedman@thompsonhine.com]
Sent: Wednesday, March 02, 2016 6:01 PM
To: Sheesley, John <Sheesley.John@epa.gov>
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Hi John-

any update on what we discussed?

thx
H

From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Monday, February 08, 2016 2:32 PM
To: Friedman, Heidi; lkirsch@goodwinprocter.com
Cc: Seadler, Donna; Waters, Melissa
Subject: Lee's Lane Landfill Site -- MSD Cap

Larry and Heidi:

As you know, EPA issued an Administrative Order on Consent (AOC) to Respondents Louisville and Jefferson County Metropolitan Sewer District (MSD) and Jefferson County, Kentucky, in 1991 concerning the Lee's Lane Landfill Site. Paragraph 1 of the AOC placed a monetary cap on the Respondents' obligation to perform certain operations and maintenance work listed in that paragraph.

EPA has not yet taken a position on whether MSD's expenditures over the years have satisfied that cap, and I understand from speaking with you last year that the PRP Group may wish to express an opinion on that question before

> Sent: Monday, February 08, 2016 2:32 PM
> To: Friedman, Heidi;
> lkirsch@goodwinprocter.com<mailto:lkirsch@goodwinprocter.com>
> Cc: Seadler, Donna; Waters, Melissa
> Subject: Lee's Lane Landfill Site -- MSD Cap
>
> Larry and Heidi:
>
> As you know, EPA issued an Administrative Order on Consent (AOC) to Respondents Louisville and Jefferson County Metropolitan Sewer District (MSD) and Jefferson County, Kentucky, in 1991 concerning the Lee's Lane Landfill Site. Paragraph 1 of the AOC placed a monetary cap on the Respondents' obligation to perform certain operations and maintenance work listed in that paragraph.
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> EPA plans to consider whether MSD's expenditures satisfy the cap, so if the PRP Group or any of its members would like to submit comments or statements on the matter, please send them to me by Tuesday, March 8, 2016. If you'd like to schedule a call or meeting to discuss your submission, we'd be glad to discuss options for scheduling that too.
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> Thank you.
>
> John P. Sheesley
> Office of Regional Counsel
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> Federal Center
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> Atlanta, GA 30303
> 404-562-8139 (P)
> 404-562-9486 (F)
> sheesley.john@epa.gov<mailto:sheesley.john@epa.gov>
>
>

Sheesley, John

From: Sheesley, John
Sent: Thursday, February 18, 2016 3:59 PM
To: Friedman, Heidi
Subject: Re: Lee's Lane Landfill Site -- MSD Cap

I just called and got your voice mail. Feel free to call me back at 770-503-5700 for the next hour or so. I expect to be on the phone a lot during that time, so if we can't connect today, I should be free most of the day tomorrow in the office at 404-562-8139.

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Thursday, February 18, 2016 3:11 PM
To: Sheesley, John
Subject: Re: Lee's Lane Landfill Site -- MSD Cap

Yes!!

Sent from my iPhone

> On Feb 18, 2016, at 12:19 PM, Sheesley, John <Sheesley.John@epa.gov> wrote:
>
> Heidi: Thanks for your call. I'm scheduled for calls for most of the afternoon, but I will give you a call when my last one is finished, hopefully around 4:30 Eastern time. Is your cell 216-970-5400? Thanks.
>
> _____
> From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
> Sent: Tuesday, February 16, 2016 4:09 PM
> To: Sheesley, John
> Subject: Re: Lee's Lane Landfill Site -- MSD Cap
>
> Ok. I will try
>
> Sent from my iPhone
>
> On Feb 16, 2016, at 11:40 AM, Sheesley, John <Sheesley.John@epa.gov<mailto:Sheesley.John@epa.gov>> wrote:
>
> Heidi: I'm tied up today but expect to be available for most of the day tomorrow. Feel free to call anytime: 404-562-8139.
>
> From: Friedman, Heidi [mailto:Heidi.Friedman@thompsonhine.com]
> Sent: Friday, February 12, 2016 6:41 PM
> To: Sheesley, John
> <Sheesley.John@epa.gov<mailto:Sheesley.John@epa.gov>>
> Subject: RE: Lee's Lane Landfill Site -- MSD Cap
>
> Hi John – do you have some time on Tuesday to discuss? I will be traveling but can call you.
>
> Let me know. Heidi
>
> From: Sheesley, John [mailto:Sheesley.John@epa.gov]

EPA plans to consider whether MSD's expenditures satisfy the cap, so if the PRP Group or any of its members would like to submit comments or statements on the matter, please send them to me by Tuesday, March 8, 2016. If you'd like to schedule a call or meeting to discuss your submission, we'd be glad to discuss options for scheduling that too.

Thank you.

John P. Sheesley
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 4 Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303
404-562-8139 (P)
404-562-9486 (F)
sheesley.john@epa.gov<mailto:sheesley.john@epa.gov>

Sheesley, John

From: Sheesley, John
Sent: Thursday, February 18, 2016 2:20 PM
To: Friedman, Heidi
Subject: Re: Lee's Lane Landfill Site -- MSD Cap

Heidi: Thanks for your call. I'm scheduled for calls for most of the afternoon, but I will give you a call when my last one is finished, hopefully around 4:30 Eastern time. Is your cell 216-970-5400? Thanks.

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Tuesday, February 16, 2016 4:09 PM
To: Sheesley, John
Subject: Re: Lee's Lane Landfill Site -- MSD Cap

Ok. I will try

Sent from my iPhone

On Feb 16, 2016, at 11:40 AM, Sheesley, John <Sheesley.John@epa.gov<mailto:Sheesley.John@epa.gov>> wrote:

Heidi: I'm tied up today but expect to be available for most of the day tomorrow. Feel free to call anytime: 404-562-8139.

From: Friedman, Heidi [mailto:Heidi.Friedman@thompsonhine.com]
Sent: Friday, February 12, 2016 6:41 PM
To: Sheesley, John <Sheesley.John@epa.gov<mailto:Sheesley.John@epa.gov>>
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Hi John – do you have some time on Tuesday to discuss? I will be traveling but can call you.

Let me know. Heidi

From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Monday, February 08, 2016 2:32 PM
To: Friedman, Heidi; lkirsch@goodwinprocter.com<mailto:lkirsch@goodwinprocter.com>
Cc: Seadler, Donna; Waters, Melissa
Subject: Lee's Lane Landfill Site -- MSD Cap

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sheesley.john@epa.gov

Sheesley, John

From: Sheesley, John
Sent: Tuesday, February 16, 2016 1:40 PM
To: 'Friedman, Heidi'
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Heidi: I'm tied up today but expect to be available for most of the day tomorrow. Feel free to call anytime: 404-562-8139.

From: Friedman, Heidi [mailto:Heidi.Friedman@thompsonhine.com]
Sent: Friday, February 12, 2016 6:41 PM
To: Sheesley, John <Sheesley.John@epa.gov>
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Hi John – do you have some time on Tuesday to discuss? I will be traveling but can call you.

Let me know. Heidi

From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Monday, February 08, 2016 2:32 PM
To: Friedman, Heidi; lkirsch@goodwinprocter.com
Cc: Seadler, Donna; Waters, Melissa
Subject: Lee's Lane Landfill Site -- MSD Cap

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Thank you.

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Cc: Seadler, Donna; Waters, Melissa
Subject: Lee's Lane Landfill Site -- MSD Cap

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sheesley.john@epa.gov

Lee's Lane
Releasable

Observation Report No: _____ Date of Observation _____

Site Map

Observer's Signature: _____

Date: 12/22/10

Observations:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving	—	X	—	———
2. Erosion of rip-rap or underlying material	—	X	—	———
3. Abnormally damp areas, wet ground vegetation	—	X	—	———
4. Soft spots in surface	—	X	—	———
5. Seepage, water flow, piping, or sand boils	—	X	—	———
6. Undermining of rip-rap	—	X	—	———
7. Vegetative growth on rip-rap slope	—	X	—	———
8. Buildup of trash and debris on rip-rap	—	X	—	———
9. Exposed trash or filter fabric	—	X	—	———
10. Tilting trees	—	X	—	—
11. Tension cracks	—	X	—	———
12. Survey monuments missing or damaged	—	X	—	———

Section F: Surface Waste Cleanup/Cover

Observations:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep	X	—	—	———
2. Cracks greater than 1 inch wide and 6 inches deep	X	—	—	———
3. Areas of erosional damage to grass	X	—	—	———
4. Inadequate grass cover (area > 36 ft²)	X	—	—	———
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)	—	X	—	———
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)	—	X	—	———

*If yes, assign a comment no. in the last column and follow instructions on comment sheet.

5.	Service box lids not in place	—	X	—	———
6.	Alarm and blower controls not functioning	—	X	—	———
7.	Settlement or tilting of well/moisture trap concrete collars	X	—	—	———
8.	Well/moisture trap covers missing or damaged	X	—	—	———
9.	Excessive vegetation covering wells/moisture traps	—	X	—	———
10.	Adjustment valve inaccessible	—	X	—	———
11.	Well/moisture trap caps, plugs, and piping missing	X	—	—	———
12.	Blower house and well/moisture trap signs missing or damaged	X	—	—	———

Section D: Groundwater & Gas Monitor Wells

Observations:		Yes*	No	Not Observed	Comment No.
1.	Wells unlocked	—	X	—	———
2.	Guard posts and rails missing or damaged	—	X	—	———
3.	Protective casing missing, damaged or rusted	—	X	—	———
4.	Concrete pads damaged or cracked	—	X	—	———
5.	Possible surface water infiltration into wells	—	X	—	———
6.	Excessive vegetation or debris around wells	—	X	—	———
7.	Well cap missing or damaged	—	X	—	———
8.	Tubing, fittings, and valves missing or damaged (gas wells only)	—	X	—	———

Section E: Bank Protection Controls

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FY16-2Q Date of Observation 12/22/15

Time Arrived Onsite: 12:25 pm Time Departed Site: 1:38 pm

Field Personnel: Heather Dodds

Section A: General Site Conditions

Observations:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/fill material	—	X	—	—
2. Evidence of leachate seepage	—	X	—	—
3. Distressed Vegetation	—	X	—	—
4. Pot holes, erosion of access road	X	—	—	A-4

Section B: Institutional Controls

Observations:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade	—	X	-	—
2. Structural problem with Putman Ave. barricade	—	X	—	—
3. Lee's Lane gate unlocked	—	X	-	—
4. Broken or missing lock	—	X	—	—

Section C: Gas Collection System

Observations:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house wells, or moisture traps	—	X	—	—
2. Structural damage to blower house	—	X	—	—
3. Blower not operating or visible damage	—	X	—	—
4. Blower house not secure and unclean	—	X	-	—

Observations:	Yes*	No	Not Observed	Comment No.

Observation Report No: FY16-2Q **Date of Observation: 12/22/2015**

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location of deficiency on the site map provided.

Comment No.	Comment	Corrective Action Performed
A-4	Potholes in access road	None – Consent Order Capped Item (e)
C-7	Collar missing on multiple wells/moisture traps	MSD to coordinate with EPA / KDEP to determine next steps
C-8	Covers missing from multiple wells/moisture traps	See C-7
C-11	W26 missing cap	See C-7
C-12	Signs missing from multiple wells/moisture traps	See C-7
F-1	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-2	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-3	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-4	Damage from vehicular trespassing	None – Consent Order Capped Item (k)

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

December 23, 2015

Ms. Donna Seadler
Remedial Project Manager, Superfund Division
US Environmental Protection Agency Region 4
61 Forsyth St SW, 11th Floor
Atlanta, GA 30303

Subject: Report of Field Observation – FY16, Second Quarter (FY16-2Q)
Lees Lane Superfund Site, Jefferson County, Kentucky
Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan for Post Removal Site Control at the Lee's Lane Landfill Site, attached for your information and files is one copy of the Report of Field Observation (Appendix J).

Please advise if you have any questions concerning the following information.

Sincerely,

Heather Dodds
Engineer II

HND/hnd

cc: Sheri Adkins, Kentucky Division of Waste Management
Daniel Phelps, Kentucky Division of Waste Management
Anthony Marconi, MSD
Jill Allen, MSD

110158 59

AECOM

TABLE 3
TO-15 DATA SUMMARY FOR GAS WELL MONITORING
SAMPLING DATE: 27 SEPTEMBER 2015

	Well Samples									
	G1	G2	G3	G4	G5-L	G5-R	GMW-1	GMW-2	GMW-3	BLANK #1
Canister ID	CC8283	C1416	C000016	C000027	C1433	CC8802	C1457	CC8796	C1421	C1422
Dilution Factor	2.085	2.232	2.106	2.198	2.063	2.036	2.141	2.083	2.088	1
Controller	E-021	E-047	E-033	E-003	E-031	E-040	E-020	E034	E-017	NA
Sampling Date	9/27/2015	9/27/2015	9/27/2015	9/27/2015	9/27/2015	9/27/2015	9/27/2015	9/27/2015	9/27/2015	9/27/2015
Compound (ppbV)										
Benzene	0.107	0.137	ND	0.0821	0.0958	0.0934	0.826	0.0847	ND	ND
Methylene chloride	ND	ND	0.159	ND	ND	ND	0.369	ND	ND	ND
Toluene	0.510	0.125	0.118	1.00	0.101	0.953	0.281	ND	ND	ND
Vinyl chloride	0.167	ND	ND	0.0971	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methane (ppmV)	8.03	8.74	8.13	8.32	7.79	7.63	8.12	1.59	8.36	4.24

ND = Non Detect < MDL and < Limit of Quantitation

AECOM

TABLE 2
LOCAL METEOROLOGICAL DATA
AMBIENT AIR SAMPLES
SAMPLING DATE: 27 SEPTEMBER 2015

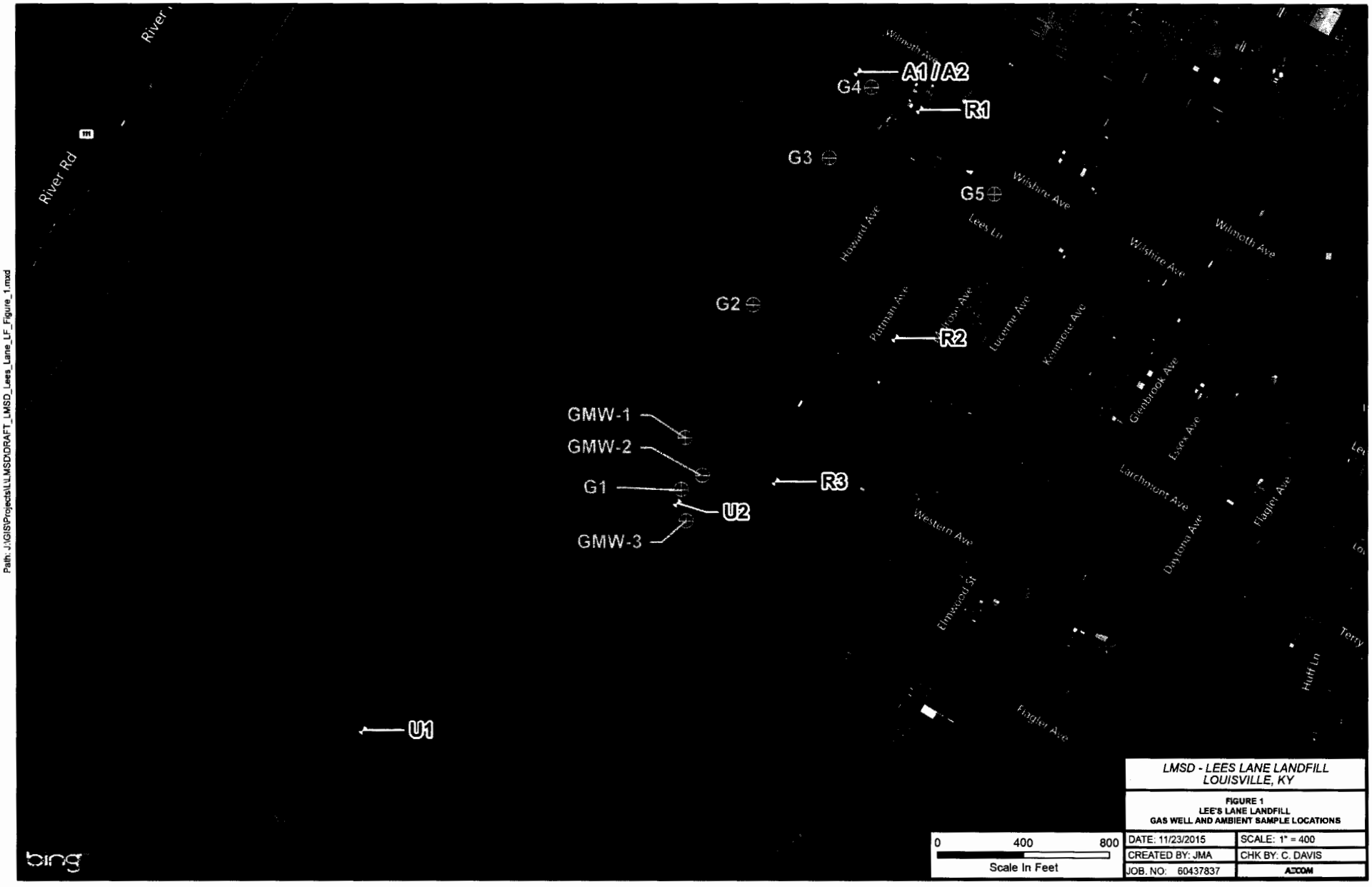
Time	Barometric Pressure (in Hg)	Temperature (°F)	Dewpoint (°F)	Wind Direction (from)	Wind Speed (mph)	Observation
7:56 AM	30.12 in	64.9°F	60.1°F	ESE	5.8 mph	Overcast
8:56 AM	30.13 in	66°F	60.1°F	ESE	3.5 mph	Mostly Cloudy
9:56 AM	30.13 in	66.9°F	60.1°F	ESE	5.8 mph	Overcast
10:56 AM	30.14 in	69.1°F	61°F	ESE	6.9 mph	Mostly Cloudy
11:56 AM	30.14 in	72°F	61°F	SSE	5.8 mph	Overcast
12:56 PM	30.13 in	75.9°F	62.1°F	South	6.9 mph	Overcast
1:56 PM	30.1 in	77°F	63°F	SSE	10.4 mph	Overcast
2:56 PM	30.08 in	78.1°F	63°F	South	6.9 mph	Overcast
3:56 PM	30.05 in	79°F	62.1°F	Variable	6.9 mph	Overcast
4:56 PM	30.04 in	79°F	62.1°F	SSE	10.4 mph	Mostly Cloudy
5:56 PM	30.04 in	79°F	61°F	SSE	9.2 mph	Mostly Cloudy

AECOM

TABLE 1
TO-15 DATA SUMMARY FOR AMBIENT
AIR SAMPLES AT THE LEE'S LANE LANDFILL
SAMPLING DATE: 27 SEPTEMBER 2015

Ambient Air Samples							
Sample ID	**A1**	**A2**	**U1**	**U2**	**R1**	**R2**	**R3**
Canister ID	C1191	C1465	C1469	C1582	C1410	CC8795	C1436
Dilution Factor	2.444	2.606	2.350	2.716	2.250	2.654	2.324
Location	ONSITE	ONSITE DUP.	LG&E	LEVY	4423 WILSHIRE	PUTMAN LANE	PUTMAN END
Controller ID	SB-03544	SB-01604	SB-01878	SB-01542	SB-03727	SB-01602	SB-03422
Compound (ppbV)							
Benzene	0.103	0.118	ND	ND	0.0963	0.215	ND
Methylene chloride	0.174	1.10	0.147	0.118	0.115	0.269	ND
Toluene	0.225	0.669	0.162	0.235	0.217	0.344	0.101
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	ND	ND	ND	ND	0.456	ND
Methane (ppmV)	1.60	1.86	2.00	1.55	1.73	1.83	1.64

ND = Non Detect < MDL and < Limit of Quantitation



Path: J:\GIS\Projects\LLMSD\DRAFT_LMSD_Lees_Lane_LF_Figure_1.mxd

LMSD - LEES LANE LANDFILL
LOUISVILLE, KY

FIGURE 1
LEE'S LANE LANDFILL
GAS WELL AND AMBIENT SAMPLE LOCATIONS

DATE: 11/23/2015	SCALE: 1" = 400
CREATED BY: JMA	CHK BY: C. DAVIS
JOB. NO: 60437837	AECOM

Table 3 is a tabular summary of the gas well samples with the primary analytes required for submission to EPA. Prior to the field sample collection, all monitoring wells were screened with a GEM-2000 analyzer to test for the presence of methane in the well. Methane was not detected in any of the wells or the vicinity of the wells above background by the instrumentation.

URS, a wholly owned subsidiary of AECOM, appreciates the opportunity to assist your staff with this project. Please advise me at (919) 461-1242 if you have any questions.

Sincerely

Chris Davis
Project Manager

Robert F. Jongleux
Project Technical Lead

Enclosure
Project Files/Task 58

AECOM
500 West Jefferson Street
Suite 1600
Louisville, Kentucky 40202
www.aecom.com

502 569 2301 tel
502 569 2304 fax

60437837

November 24, 2015

Ms. Heather Dodds
Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville, KY 40203

Dear Heather,

Enclosed is the summary analytical report for the ambient air and gas monitoring well samples collected at the Lee's Lane Landfill site on September 27, 2015 (Sampling Event 58). Ambient air samples at seven locations, along with gas well samples (G1, G2, G3, G4, G5R, G5L, GMW-1, GMW-2, GMW-3) and a Field Blank were collected.

A map of the site, labeled with the sample collection locations for your reference, is shown in Figure 1. Table 1 is a tabular summary of the ambient samples with the primary analytes required for submission to EPA. Benzene, toluene and methylene chloride were detected in small quantities in most ambient samples. Total Xylene was also detected at ambient sample location R2. Methane concentrations were consistent with or lower than historical concentrations.

The sampling locations were chosen based on a combination of prevailing on-site meteorology and accessible sites in the adjacent residential neighborhood per the standard sampling protocol. The meteorological conditions were mild throughout the sampling day; warm (64-79O F), with light, southeasterly winds. The information displayed in Table 2 was obtained from the Louisville International Airport (Standiford Field) National Weather Service Station. The ambient air samples were collected in Summa canisters with stainless steel sampling canes positioned 3-5 feet above ground level, integrated over an approximate 7 to 8-hour collection period.

The methane analysis was performed by GC/FID using a separate analytical system from the TO-15 analysis employed at Enthalpy Analytical, Inc. in Durham, NC. The TO-15 analytical methodology using Gas Chromatography/Mass Spectrometry (GC/MS) was employed. Samples were handled with standard laboratory chain-of-custody procedures. Sample canisters and flow controllers were cleaned and blanked using method TO-12 for total non-methane hydrocarbons prior to field deployment. All of the samples were successfully collected and analyzed for methane and the TO-15 target analytes. Quality control parameters of precision (repeatability) and spiking of surrogate compounds meet internal AECOM and project-required specifications for all other analyses.

The reliability of this data set from the September 2015 sampling event can be characterized as good, based on the repeatability (analytical precision), surrogate spike recoveries and analyte concentrations encountered in the field blank. Methane was detected at higher than expected level in the field blank canister. No other analytes were reported in the field blank canister. Methane values are not blank corrected.

1101958 58

Please advise if you have any questions concerning the following information.

Sincerely,

Heather Dodds
Engineer II

HND/hnd

cc: Sheri Adkins, Kentucky Division of Waste Management
Daniel Phelps, Kentucky Division of Waste Management
Anthony Marconi, MSD
Jill Allen, MSD

MSD
Metropolitan Sewer District

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

November 24, 2015

Ms. Donna Seadler
Remedial Project Manager, Superfund Division
US Environmental Protection Agency Region 4
61 Forsyth St SW, 11th Floor
Atlanta, GA 30303

Subject: Result of Air Quality Monitoring – FY16, First Quarter (FY16-1Q)
Lees Lane Superfund Site, Jefferson County, Kentucky
Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan for Post Removal Site Control at the Lee's Lane Landfill Site Section 4.2, Air Quality Monitoring, attached for your information and files is one copy each of the following items, prepared by URS Corporation, 1600 Perimeter Park Drive, Morrisville, North Carolina, 27560 and received by MSD on November 24, 2015.

1. URS Corporation letter dated November 24, 2015, 2 pages.
2. Figure 1, Lees Lane Landfill, Sampling Locations, 1 page.
3. Table 1, TO-15 Data Summary for Ambient Air Samples at the Lees Lane Landfill, Sampling Date September 27, 2015, 1 page.
4. Table 2, Local Meteorological Data, Sampling Date September 27, 2015, 1 page.
5. Table 3, TO-15 Summary Data for Gas Monitoring Well Samples at the Lees Lane Landfill, Sampling Date September 27, 2015, 1 page.

11015857

Observation Report No: _____ Date of Observation _____

Site Map

Observer's Signature: _____

Date: 6/26/15

Observations:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving	—	X	—	———
2. Erosion of rip-rap or underlying material	—	X	—	———
3. Abnormally damp areas, wet ground vegetation	—	X	—	———
4. Soft spots in surface	-	X	—	———
5. Seepage, water flow, piping, or sand boils	—	X	—	———
6. Undermining of rip-rap	—	X	—	———
7. Vegetative growth on rip-rap slope	X	—	—	———
8. Buildup of trash and debris on rip-rap	—	X	—	———
9. Exposed trash or filter fabric	—	X	—	———
10. Tilting trees	—	X	—	-
11. Tension cracks	—	X	—	———
12. Survey monuments missing or damaged	—	X	—	———

Section F: Surface Waste Cleanup/Cover

Observations:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep	X	—	—	———
2. Cracks greater than 1 inch wide and 6 inches deep	X	—	—	———
3. Areas of erosional damage to grass	X	—	—	———
4. Inadequate grass cover (area > 36 ft^2	X	—	—	———
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)	X	—	—	———
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)	—	X	—	———

*If yes, assign a comment no. in the last column and follow instructions on comment sheet.

5.	Service box lids not in place	—	X	—	—
6.	Alarm and blower controls not functioning	—	X	—	—
7.	Settlement or tilting of well/moisture trap concrete collars	X	—	—	—
8.	Well/moisture trap covers missing or damaged	X	—	—	—
9.	Excessive vegetation covering wells/moisture traps	—	X	—	—
10.	Adjustment valve inaccessible	—	X	—	—
11.	Well/moisture trap caps, plugs, and piping missing	X	—	—	—
12.	Blower house and well/moisture trap signs missing or damaged	X	—	—	—

Section D: Groundwater & Gas Monitor Wells

Observations:		Yes*	No	Not Observed	Comment No.
1.	Wells unlocked	—	X	—	—
2.	Guard posts and rails missing or damaged	—	X	—	—
3.	Protective casing missing, damaged or rusted	—	X	—	—
4.	Concrete pads damaged or cracked	—	X	—	—
5.	Possible surface water infiltration into wells	—	X	—	—
6.	Excessive vegetation or debris around wells	—	X	—	—
7.	Well cap missing or damaged	—	X	—	—
8.	Tubing, fittings, and valves missing or damaged (gas wells only)	—	X	—	—

Section E: Bank Protection Controls

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FY15-4Q Date of Observation 6/26/15

Time Arrived Onsite: 9:25 AM Time Departed Site: 10:10 AM

Field Personnel: Heather Dodds

Section A: General Site Conditions

Observations:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/fill material	—	X	—	—
2. Evidence of leachate seepage	—	X	—	—
3. Distressed Vegetation	—	X	—	—
4. Pot holes, erosion of access road	X	—	—	—

Section B: Institutional Controls

Observations:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade	—	X	-	—
2. Structural problem with Putman Ave. barricade	—	X	—	—
3. Lee's Lane gate unlocked	—	X	-	—
4. Broken or missing lock	—	X	—	—

Section C: Gas Collection System

Observations:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house wells, or moisture traps	—	X	—	—
2. Structural damage to blower house	—	X	—	—
3. Blower not operating or visible damage	—	X	—	—
4. Blower house not secure and unclean	—	X	-	—

Observations:	Yes*	No	Not Observed	Comment No.

Observation Report No: FY15-4Q **Date of Observation: 06/26/2015**

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location of deficiency on the site map provided.

Comment No.	Comment	Corrective Action Performed
A-4	Potholes in access road	None – Consent Order Capped Item (e)
C-7	Collar missing on multiple wells/moisture traps	MSD to coordinate with EPA / KDEP to determine next steps
C-8	Covers missing from multiple wells/moisture traps	See C-7
C-11	W26 missing cap	See C-7
C-12	Signs missing from multiple wells/moisture traps	See C-7
E-7	Vegetative growth on riprap slope	Created work order 2379477 to clear vegetation
F-1	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-2	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-3	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-4	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-5	Damage from vehicular trespassing	None – Consent Order Capped Item (k)

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

June 29, 2015

Ms. Donna Seadler
Remedial Project Manager, Superfund Division
US Environmental Protection Agency Region 4
61 Forsyth St SW, 11th Floor
Atlanta, GA 30303

Subject: Report of Field Observation – FY15, Fourth Quarter (FY15-4Q)
Lees Lane Superfund Site, Jefferson County, Kentucky
Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan for Post Removal Site Control at the Lee's Lane Landfill Site, attached for your information and files is one copy of the Report of Field Observation (Appendix J).

Please advise if you have any questions concerning the following information.

Sincerely,

Heather Dodds
Engineer II

HND/hnd

cc: Sheri Adkins, Kentucky Division of Waste Management
Daniel Phelps, Kentucky Division of Waste Management
Anthony Marconi, MSD
Jill Allen, MSD

11015855

Please advise if you have any questions concerning the following information.

Sincerely,

Heather Dodds
Engineer II

HND/hnd

cc: Sheri Adkins, Kentucky Division of Waste Management
Daniel Phelps, Kentucky Division of Waste Management
Anthony Marconi, MSD
Jill Allen, MSD

MSD
Metropolitan Sewer District

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

June 15, 2015

Ms. Donna Seadler
Remedial Project Manager, Superfund Division
US Environmental Protection Agency Region 4
61 Forsyth St SW, 11th Floor
Atlanta, GA 30303

Subject: Result of Air Quality Monitoring – FY14, Fourth Quarter (FY15-4Q)
Lees Lane Superfund Site, Jefferson County, Kentucky
Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan for Post Removal Site Control at the Lee's Lane Landfill Site Section 4.2, Air Quality Monitoring, attached for your information and files is one copy each of the following items, prepared by URS Corporation, 1600 Perimeter Park Drive, Morrisville, North Carolina, 27560 and received by MSD on June 15, 2015.

1. URS Corporation letters dated June 5, 2015, 2 pages.
2. Figure 1, Lees Lane Landfill, Sampling Locations, 1 page.
3. Table 1, TO-15 Data Summary for Ambient Air Samples at the Lees Lane Landfill, Sampling Date April 23, 2015, 1 page.
4. Table 2, Local Meteorological Data, Sampling Date April 23, 2015, 1 page.
5. Table 3, TO-15 Summary Data for Gas Monitoring Well Samples at the Lees Lane Landfill, Sampling Date [April 23, 2015, 1 page.

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AECOM

TABLE 3
TO-15 DATA SUMMARY FOR GAS MONITORING
SAMPLING DATE: 23 APRIL 2015

	Well Samples									
	G1	**G2**	**G3**	**G4**	**G5-L**	**G5-R**	**GMW-1**	**GMW-2**	**GMW-3**	**BLANK #1**
Canister ID	1472	1582	1470	000025	C8283	000009	C8246	8200	000007	1412
Controller	SGS-011	SGS-002	SGS-501	SGS-009	SGS-012	SGS-007	SGS-008	SGS-001	SGS-502	NA
Sampling Date	4/23/2015	4/23/2015	4/23/2015	4/23/2015	4/23/2015	4/23/2015	4/23/2015	4/23/2015	4/23/2015	4/23/2015
Compound (ppbV)										
Benzene	0.0846	0.0958	ND	ND	ND	0.0747	0.078	0.10	0.16	ND
Methylene chloride	0.146	ND	ND	ND	ND	ND	0.0845	0.147	0.249	ND
Toluene	0.594	0.576	0.203	1.14	0.114	1.27	ND	0.164	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	ND	0.749	ND	ND	ND	ND	ND	ND	ND
Methane (ppmV)	0.781	152	0.781	0.787	0.784	0.777	0.777	1.56	20,411	0.387

ND = Non Detect < MDL and < Limit of Quantitation

AECOM

TABLE 2

LOCAL METEOROLOGICAL DATA
AMBIENT AIR SAMPLES
SAMPLING DATE: 23 APRIL 2015

Time	Barometric Pressure (in Hg)	Temperature (°F)	Dewpoint (°F)	Wind Direction (from)	Wind Speed (mph)	Observation
7:56 AM	30.05 in	43.0 °F	28.9 °F	West	8.1 mph	Clear
8:56 AM	30.06 in	46.9 °F	27.0 °F	WNW	9.2 mph	Clear
9:56 AM	30.07 in	50.0 °F	23.0 °F	WNW	10.4 mph	Clear
10:56 AM	30.08 in	54.0 °F	15.1 °F	NW	16.1 mph	Clear
11:56 AM	30.08 in	55.9 °F	14.0 °F	NW	13.8 mph	Clear
12:56 PM	30.06 in	57.9 °F	19.0 °F	West	13.8 mph	Clear
1:56 PM	30.05 in	60.1 °F	19.0 °F	West	12.7 mph	Clear
2:56 PM	30.04 in	62.1 °F	18.0 °F	NNW	13.8 mph	Clear
3:56 PM	30.02 in	62.1 °F	18.0 °F	WNW	13.8 mph	Clear
4:56 PM	30.01 in	62.1 °F	18.0 °F	WNW	19.6 mph	Clear
5:56 PM	30.03 in	62.1 °F	18.0 °F	WNW	17.3 mph	Clear
6:56 PM	30.04 in	60.1 °F	16.0 °F	WNW	16.1 mph	Clear

Source: National Weather Service, Louisville, Ky. (KSDF)

AECOM

TABLE 1

TO-15 DATA SUMMARY FOR AMBIENT AIR SAMPLES AT THE LEE'S LANE LANDFILL SAMPLING DATE: 23 APRIL 2015

	Ambient Air Samples									
Sample ID	**A1**	**A2**	**U1**	**U1-B (Duplicate)**	**U2**	**R1**	**R2**	**R2-B (Duplicate)**	**R3**	**R3-B (Duplicate)**
Canister ID	1475	1433	1465	000027	1446	1459	1469	1436	1410	1445
Location	ONSITE	ONSITE DUP.	LG&E	LG&E	LEVY	4423 WILSHIRE	PUTMAN LANE	PUTMAN LANE	PUTNAM END	PUTMAN END
Controller ID	SB-03424	SB-01803	SB-0125	SB-01604	SB-01538	SB-03541	SB-01541	SB-01603	SB-01804	SB-01597
Compound (ppbV)										
Benzene	ND	ND	0.186	0.0939	0.109	0.0898	0.0877	0.0828	0.0855	0.364
Methylene chloride	0.135	0.152	0.476	0.2	0.158	0.125	0.172	0.128	0.193	0.117
Toluene	ND	ND	0.981	0.114	2.63	ND	ND	ND	ND	ND
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene (Total)	ND	ND	0.3086	ND	ND	ND	ND	ND	ND	ND
Methane (ppmV)	1.68	1.44	2.25	1.51	1.68	1.62	1.75	1.48	1.62	1.43

ND = Non Detect < MDL and < Limit of Quantitation

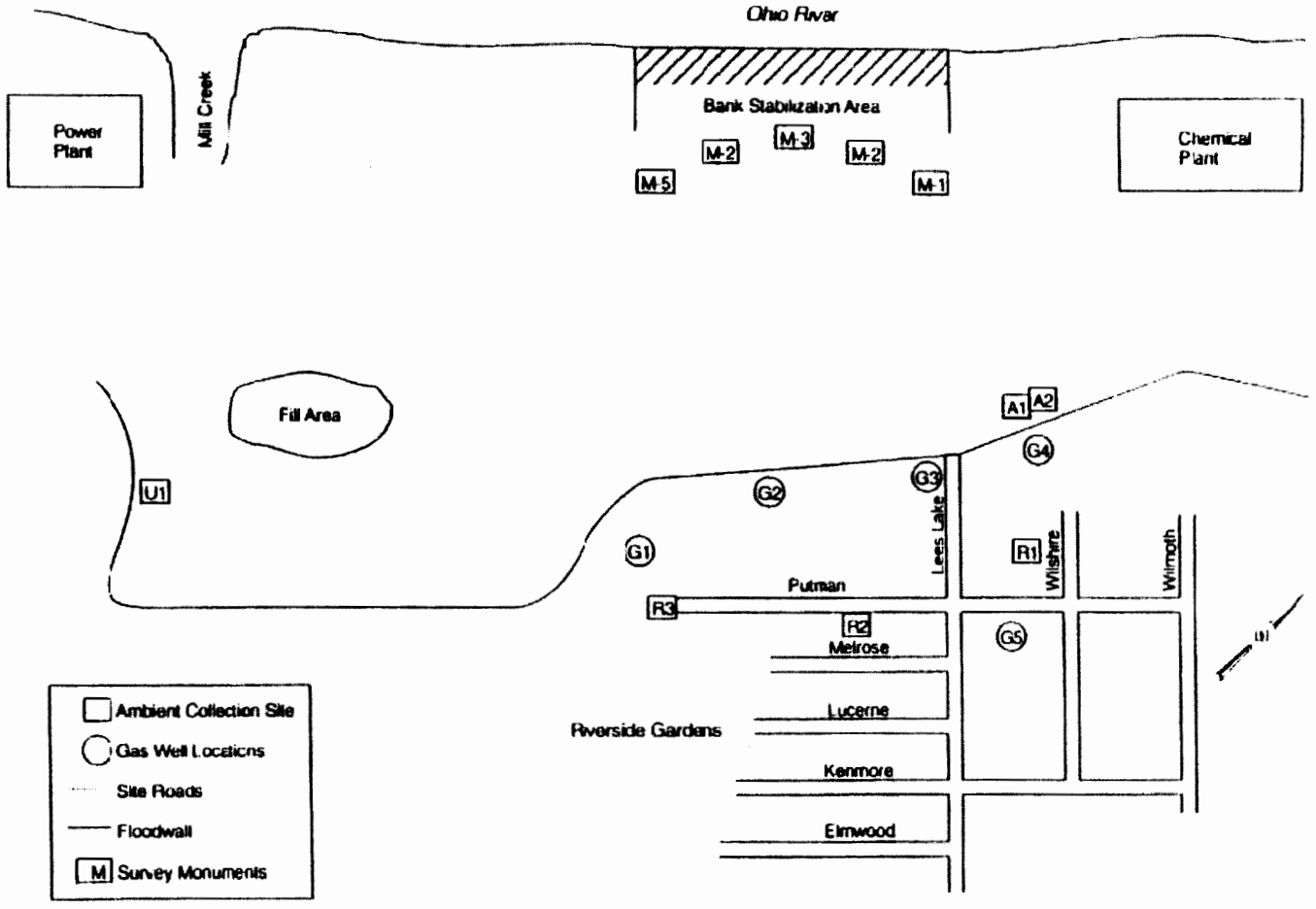

Figure 1. Lees Lane Landfill Sampling Locations

AECOM

Table 3 is a tabular summary of the gas well samples with the primary analytes required for submission to EPA. Prior to the field sample collection, all monitoring wells were screened with a GEM-2000 analyzer to test for the presence of methane in the well. Methane was not detected in any of the wells or the vicinity of the wells above background by the instrumentation with the exception of well GMW-3. Methane concentrations of approximately 2.6% were measured at gas well GMW-3 just prior to sampling

AECOM appreciates the opportunity to assist your staff with this project. Please advise me at (919) 461-1242 if you have any questions.

Sincerely,

Robert E. Langley

Enclosure

cc: Chris Davis, URS/LOU
Project File/Task 57

AECOM

60405598

June 5, 2015

Ms. Heather Dodds
Louisville Metropolitan Sewer District
3050 Commerce Center Place
Louisville, KY 40211

Dear Heather:

Enclosed is the summary analytical report for the ambient air and gas monitoring well samples collected at the Lee's Lane Landfill site on April 23, 2015 (Sampling Event 57). Seven ambient samples, along with (G1, G2, G3, G4, G5R, G5L, GMW-1, GMW-2, GMW-3) well samples and a Field Blank were taken. For this sampling event, duplicates were collected at ambient sample locations U1, R2 and R3 for additional quality control purposes.

A map of the site, labeled with the sample collection locations for your reference, is shown in Figure 1. Table 1 is a tabular summary of the ambient samples with the primary analytes required for submission to EPA. Benzene and Methylene Chloride were detected in small quantities in select ambient samples. Methane concentrations were consistent with historical concentrations.

The sampling locations were chosen based on a combination of prevailing on-site meteorology and accessible sites in the adjacent residential neighborhood per the standard sampling protocol. The meteorological conditions were moderate throughout the sampling day; cool (45-62 ^{o} F), with light, westerly winds. The information displayed in Table 2 was obtained from the Louisville International Airport (Standiford Field) National Weather Service Station. The ambient air samples were collected in Summa canisters with stainless steel sampling canes positioned 3-5 feet above ground level, integrated over an approximate 7 to 8-hour collection period.

The methane analysis was performed by GC/FID using a separate analytical system from the TO-15 analysis employed at Enthalpy Analytical, Inc. in Durham, NC. The TO-15 analytical methodology using Gas Chromatography/Mass Spectrometry (GC/MS) was employed. Samples were handled with standard laboratory chain-of-custody procedures. Sample canisters and flow controllers were cleaned and blanked using method TO-12 for total non-methane hydrocarbons prior to field deployment. All of the samples were successfully collected and analyzed for methane and the TO-15 target analytes. Quality control parameters of precision (repeatability) and spiking of surrogate compounds meet internal URS and project-required specifications for all other analyses.

The reliability of this data set from the April 2015 sampling event can be characterized as good, based on the repeatability (analytical precision), surrogate spike recoveries and analyte concentrations encountered in the field blank. The April 2015 field blank canister did report small concentrations for methane and propylene that were within acceptability limits.

AECOM
1600 Perimeter Park Drive
Morrisville, North Carolina 27560
Telephone: 919.461.1100
Fax: 919.461.1415

11015854

April 30, 2015

Louisville/Jefferson County
Metropolitan Sewer District
Infrastructure and Flood Protection
3050 Commerce Center Place
Louisville, Kentucky 40211

Attention: Heather Dodds

RE: Surveying of the Lee's Lane Landfill site

Dear Heather:

Listed below are the elevations for the monitoring wells at the Lee's Lane Landfill, per your request.

- Bench Mark – TT A 10 – Elevation = 457.280
- Site TBM – Chiseled 1" by 1" Square Cut in the South rim of manhole on 5' by 5' by 3' high concrete box which is located 12' East of floodwall levee centerline and 27' South of Lee's Lane (pavement extended).
- Elevation = 463.368

	2015	2014	2013
Monument #1	Elevation = 448.680	Elevation = 448.680	Elevation = 448.694
Monument #2	Elevation = 447.224	Elevation = 447.232	Elevation = 447.251
Monument #3	Elevation = 444.906	Elevation = 444.917	Elevation = 444.935
Monument #4	Elevation = 444.951	Elevation = 444.958	Elevation = 444.973
Monument #5	Elevation = 445.326	Elevation = 445.356	Elevation = 445.335

If you have any questions please feel free to call at any time.

Sincerely,

HDR Engineering, Inc.

C. Bruce Snook, PLS 2747

CBS/mpd

HDR Engineering, Inc.

401 West Main Street
Suite 500
Louisville, KY 40202-2936

Phone: (502) 909-3234
Fax: (502) 909-3235
www.hdrinc.com

```
   TP                                -6.0880
                                     -5.1450   -5.1450
                                     -4.2020  449.5853   449.576
3781       189      3969

   HI           8.3700
                7.3810    7.3797
                6.3880  456.9650
 198               4167

   TP                                -4.1350
                                     -2.9350   -2.9327
                                     -1.7280  454.0323   454.022
4167       241      4408

   HI          10.6350
               10.0000    9.9987
                9.3610  464.0310
 127               4536

   BM SQ CUT                         -1.0250
                                     -0.6510   -0.6520
                                     -0.2800  463.3790   463.368 S.SIDE 5X5 @FLDWALL
4536        75      4610
```

```
                3.5820  451.8003
 198               1374

   MON-M3                          -7.8420
                                   -6.8890   -6.8910
                                   -5.9420  444.9093   444.906 47' NW OF PVMT
1374       190     1564

   HI           5.8250
                4.8880    4.8873
                3.9490  449.7967
 188               1751

   MON-M4                          -5.9150
                                   -4.8420   -4.8407
                                   -3.7650  444.9560   444.951 19.5' NW PVMT
1751       215     1966

   HI           7.6420
                6.5480    6.5500
                5.4600  451.5060
 218               2185

   MON-M5                          -7.2350
                                   -6.1720   -6.1740
                                   -5.1150  445.3320   445.326 40.5' NW PVMT
2185       212     2397

   HI           7.1620
                6.1020    6.1020
                5.0420  451.4340
 212               2609

   TP                              -6.8220
                                   -5.7600   -5.7607
                                   -4.7000  445.6733   445.667
2609       212     2821

   HI           7.2410
                6.2610    6.2613
                5.2820  451.9347
 196               3017

   TP                              -5.6890
                                   -4.6920   -4.6920
                                   -3.6950  447.2427   447.235
3017       199     3216

   HI           6.9930
                6.0410    6.0390
                5.0830  453.2817
 191               3407

   TP                              -6.2050
                                   -5.2950   -5.2950
                                   -4.3850  447.9867   447.978
3407       182     3589

   HI           7.7020
                6.7420    6.7437
                5.7870  454.7303
 192               3781
```

PROJECT LEES LANE LANDFILL PROJECT NO.CON0097890

LEVEL CIRCUIT MON CHECK DATE 4/27/14

INSTRUMENT WILD NA2 RODS WILD STAFF

WEATHER SUNNY TEMP. 60 DEGREES

STATION	+ DIST	- DIST	+ T-DIST	MEAN/HI	-	MEAN/EL	BM/ADJ	REMARKS
TBM CH SQ			0				463.3680	ON RIM MH
HI				0.9670				
				0.5610	0.5610			
				0.1550	463.9290			
81			81					
TP					-8.6560			
					-8.2260	-8.2260		
					-7.7960	455.7030	455.703	
81	86		167					
HI				2.3280				
				1.2750	1.2747			
				0.2210	456.9777			
211			378					
TP					-6.7470			
					-5.7820	-5.7790		
					-4.8080	451.1987	451.197	
378	194		572					
HI				3.0350				
				2.4480	2.4483			
				1.8620	453.6470			
117			689					
MON-M1					-5.3490			
					-4.9650	-4.9653		
					-4.5820	448.6817	448.680	20' INSIDE WOODS
689	77		766					
HI				6.2460				
				5.3050	5.3053			
				4.3650	453.9870			
188			954					
MON-M2					-7.8680			
					-6.7620	-6.7600		
					-5.6500	447.2270	447.224	23' N OF PVMT
954	222		1176					
HI				5.5630				
				4.5750	4.5733			

MSD
Metropolitan Sewer District

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

May 1, 2015

Ms. Donna Seadler
Remedial Project Manager, Superfund Division
US Environmental Protection Agency, Region 4
64 Forsyth St SW, 11th Floor
Atlanta, GA 30303

Subject: Result of Landfill Cap Survey
Lees Lane Landfill, Jefferson County, Kentucky
Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment I, Operation and Maintenance Plan for Post-Removal Site Control at the Lees Lane Landfill Site, Section 4.5 Surveying, attached for your information is one copy each of the following reports:

Monument Elevation Results
Level Circuit Monitoring

If you have any questions or concerns about the report please contact me at 502-689-8284 or heather.dodds@louisvillemsd.org.

Sincerely,

Heather Dodds, PE
Performance Metrics Supervisor

HND/hnd

cc: Daniel Phelps, Kentucky Division of Waste Management
Anthony Marconi, MSD

11015856

Twitter | Facebook | LinkedIn | Google+

Seadler, Donna

From: Seadler, Donna
Sent: Friday, April 24, 2015 1:39 PM
To: Heather Dodds
Subject: RE: LMSD - Lees Lane Landfill first semi-annual sampling event, April 2015

Thanks.

From: Heather Dodds [mailto:heather.dodds@louisvillemsd.org]
Sent: Friday, April 24, 2015 10:14 AM
To: Seadler, Donna
Cc: Tony Marconi
Subject: FW: LMSD - Lees Lane Landfill first semi-annual sampling event, April 2015

Donna -

See below - during the March monthly screening event for the original well G-1 and new wells GMW-1, GMW-2, and GMW-3, there were low levels of methane detected in GMW-3. This was repeated in the screening event in April. This well has occasionally shown low levels of methane, and the levels may be associated with effects of recent river flooding on the groundwater table. Please let me know if you have questions. Thanks -

Heather Dodds

Performance Metrics Supervisor
Louisville MSD
3050 Commerce Center Place 40211
502/689-8284

From: Davis, Chris (Louisville) [mailto:chris.d.davis@aecom.com]
Sent: Friday, April 24, 2015 9:54 AM
To: Heather Dodds
Cc: Tony Marconi; Jongleux, Bob; Crumpton, Kristen
Subject: LMSD - Lees Lane Landfill first semi-annual sampling event, April 2015

Hello Heather,
The semi-annual sampling event was completed yesterday with no issues to report. As we discussed earlier, well GMW-3 exhibited detectable methane concentrations around 1.8% during the March screening event. Prior to collecting the sample yesterday, well GMW-3 was pre-screened and a Methane concentration of 2.6% was measured. We will keep you updated on the timing of the analytical results and reporting schedule. Please let us know if you have any questions. Thanks.

Chris Davis
Geologist, Geosciences/Environmental Group
D 1-502-217-1514 C 1-513-237-1184
chris.d.davis@aecom.com

AECOM
500 West Jefferson Street, Suite 1600, Louisville, KY 40202
T 1-502-569-2301 F 1-502-569-2304
www.aecom.com

Observation Report No: _____ Date of Observation _____

Site Map

Observer's Signature: _____

Date: 3/25/15

Observations:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving	—	X	—	—
2. Erosion of rip-rap or underlying material	—	X	—	—
3. Abnormally damp areas, wet ground vegetation	—	X	—	—
4. Soft spots in surface	—	X	—	—
5. Seepage, water flow, piping, or sand boils	—	X	—	—
6. Undermining of rip-rap	—	X	—	—
7. Vegetative growth on rip-rap slope	—	X	—	—
8. Buildup of trash and debris on rip-rap	X	—	—	recent RIV flood debris
9. Exposed trash or filter fabric	—	X	—	—
10. Tilting trees	—	X	—	—
11. Tension cracks	—	X	—	—
12. Survey monuments missing or damaged	—	X	—	—

Section F: Surface Waste Cleanup/Cover

Observations:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep	X	—	—	—
2. Cracks greater than 1 inch wide and 6 inches deep	X	—	—	—
3. Areas of erosional damage to grass	X	—	—	—
4. Inadequate grass cover (area > 36 ft²)	X	X	—	—
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)	X	—	—	trespassing/ mudding non-on cap
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)	—	X	—	—

*If yes, assign a comment no. in the last column and follow instructions on comment sheet.

5.	Service box lids not in place	—	X	—	—
6.	Alarm and blower controls not functioning	—	X	—	—
7.	Settlement or tilting of well/moisture trap concrete collars	X	—	—	—
8.	Well/moisture trap covers missing or damaged	X	—	—	—
9.	Excessive vegetation covering wells/moisture traps	—	X	—	—
10.	Adjustment valve inaccessible	—	X	—	—
11.	Well/moisture trap caps, plugs, and piping missing	X	—	—	—
12.	Blower house and well/moisture trap signs missing or damaged	X	—	—	—

Section D: Groundwater & Gas Monitor Wells

Observations:		Yes*	No	Not Observed	Comment No.
1.	Wells unlocked	—	X	—	—
2.	Guard posts and rails missing or damaged	—	X	—	—
3.	Protective casing missing, damaged or rusted	—	X	—	—
4.	Concrete pads damaged or cracked	—	X	—	—
5.	Possible surface water infiltration into wells	—	X	—	—
6.	Excessive vegetation or debris around wells	—	X	—	—
7.	Well cap missing or damaged	—	X	—	—
8.	Tubing, fittings, and valves missing or damaged (gas wells only)	—	X	—	—

Section E: Bank Protection Controls

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FY15-3Q Date of Observation 3/25/15

Time Arrived Onsite: 115PM Time Departed Site: 251PM

Field Personnel: Heather Davis

Section A: General Site Conditions

Observations:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/fill material	—	X	—	———
2. Evidence of leachate seepage	—	X	—	———
3. Distressed Vegetation	—	X	—	———
4. Pot holes, erosion of access road	X	—	—	———

Section B: Institutional Controls

Observations:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade	—	X	-	———
2. Structural problem with Putman Ave. barricade	—	X	—	———
3. Lee's Lane gate unlocked	—	X	-	———
4. Broken or missing lock	—	X	—	———

Section C: Gas Collection System

Observations:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house wells, or moisture traps	—	X	—	———
2. Structural damage to blower house	—	X	—	———
3. Blower not operating or visible damage	—	X	—	———
4. Blower house not secure and unclean	—	X	-	———

Observations:	Yes*	No	Not Observed	Comment No.

Observation Report No: FY15-3Q **Date of Observation: 03/25/2015**

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location of deficiency on the site map provided.

Comment No.	Comment	Corrective Action Performed
A-4	Potholes in access road	None – Consent Order Capped Item (e)
C-7	Collar missing on multiple wells/moisture traps	MSD to coordinate with EPA / KDEP to determine next steps
C-8	Covers missing from multiple wells/moisture traps	See C-7
C-11	W26 missing cap	See C-7
C-12	Signs missing from multiple wells/moisture traps	See C-7
F-1	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-2	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-3	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-4	Damage from vehicular trespassing	None – Consent Order Capped Item (k)
F-5	Damage from vehicular trespassing	None – Consent Order Capped Item (k)

MSD
Metropolitan Sewer District

Louisville and Jefferson County Metropolitan Sewer District
700 West Liberty Street
Louisville Kentucky 40203-1911
502-540-6000
www.msdlouky.org

March 25, 2015

Ms. Donna Seadler
Remedial Project Manager, Superfund Division
US Environmental Protection Agency Region 4
61 Forsyth St SW, 11th Floor
Atlanta, GA 30303

Subject: Report of Field Observation – FY15, Third Quarter (FY15-3Q)
Lees Lane Superfund Site, Jefferson County, Kentucky
Administrative Order on Consent, USEPA Docket No. 91-32-C

Dear Ms. Seadler:

In accordance with paragraph 11, under Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan for Post Removal Site Control at the Lee's Lane Landfill Site, attached for your information and files is one copy of the Report of Field Observation (Appendix J).

Please advise if you have any questions concerning the following information.

Sincerely,

Heather Dodds
Performance Metrics Supervisor

HND/hnd

cc: Sheri Adkins, Kentucky Division of Waste Management
Daniel Phelps, Kentucky Division of Waste Management
Anthony Marconi, MSD

11015852

Sheesley, John

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Friday, February 12, 2016 6:41 PM
To: Sheesley, John
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Hi John – do you have some time on Tuesday to discuss? I will be traveling but can call you.

Let me know. Heidi

From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Monday, February 08, 2016 2:32 PM
To: Friedman, Heidi; lkirsch@goodwinprocter.com
Cc: Seadler, Donna; Waters, Melissa
Subject: Lee's Lane Landfill Site -- MSD Cap

Larry and Heidi:

As you know, EPA issued an Administrative Order on Consent (AOC) to Respondents Louisville and Jefferson County Metropolitan Sewer District (MSD) and Jefferson County, Kentucky, in 1991 concerning the Lee's Lane Landfill Site. Paragraph 1 of the AOC placed a monetary cap on the Respondents' obligation to perform certain operations and maintenance work listed in that paragraph.

EPA has not yet taken a position on whether MSD's expenditures over the years have satisfied that cap, and I understand from speaking with you last year that the PRP Group may wish to express an opinion on that question before EPA takes a position. In the documents that EPA released in response to your FOIA request, you've probably seen that MSD believes it has met its cap.

EPA plans to consider whether MSD's expenditures satisfy the cap, so if the PRP Group or any of its members would like to submit comments or statements on the matter, please send them to me by Tuesday, March 8, 2016. If you'd like to schedule a call or meeting to discuss your submission, we'd be glad to discuss options for scheduling that too.

Thank you.

John P. Sheesley
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303
404-562-8139 (P)
404-562-9486 (F)
sheesley.john@epa.gov

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Atlanta, GA 30303
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404-562-9486 (F)
sheesley.john@epa.gov

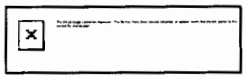
Sheesley, John

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Monday, February 08, 2016 7:16 PM
To: Sheesley, John; lkirsch@goodwinprocter.com
Cc: Seadler, Donna; Waters, Melissa
Subject: RE: Lee's Lane Landfill Site -- MSD Cap
Attachments: removed.txt

Hi John –

Thank you so much for reaching out. I will talk to the Group and be back to you shortly.

Heidi
Heidi B. (Goldstein) Friedman | Partner | **Thompson Hine LLP**
3900 Key Center, 127 Public Square | Cleveland, OH 44114-1291
Office: 216.566.5559 | **Mobile:** 216.970.5400
Fax: 216.566.5800 | **Email:** Heidi.Friedman@ThompsonHine.com



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Sent: Monday, February 08, 2016 2:32 PM
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> 404-562-8139 (P)
> 404-562-9486 (F)
> sheesley.john@epa.gov<mailto:sheesley.john@epa.gov>
>
>

Sheesley, John

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Thursday, February 18, 2016 3:12 PM
To: Sheesley, John
Subject: Re: Lee's Lane Landfill Site -- MSD Cap

Yes!!

Sent from my iPhone

> On Feb 18, 2016, at 12:19 PM, Sheesley, John <Sheesley.John@epa.gov> wrote:
>
> Heidi: Thanks for your call. I'm scheduled for calls for most of the afternoon, but I will give you a call when my last one is finished, hopefully around 4:30 Eastern time. Is your cell 216-970-5400? Thanks.
>
> _____
> From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
> Sent: Tuesday, February 16, 2016 4:09 PM
> To: Sheesley, John
> Subject: Re: Lee's Lane Landfill Site -- MSD Cap
>
> Ok. I will try
>
> Sent from my iPhone
>
> On Feb 16, 2016, at 11:40 AM, Sheesley, John <Sheesley.John@epa.gov<mailto:Sheesley.John@epa.gov>> wrote:
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> <Sheesley.John@epa.gov<mailto:Sheesley.John@epa.gov>>
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> To: Friedman, Heidi;
> lkirsch@goodwinprocter.com<mailto:lkirsch@goodwinprocter.com>
> Cc: Seadler, Donna; Waters, Melissa
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> 404-562-8139 (P)
> 404-562-9486 (F)
> sheesley.john@epa.gov<mailto:sheesley.john@epa.gov>
>
>

Sheesley, John

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Thursday, February 18, 2016 6:25 PM
To: Sheesley, John
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Sorry John - I will try you tomorrow.

-----Original Message-----
From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Thursday, February 18, 2016 3:59 PM
To: Friedman, Heidi
Subject: Re: Lee's Lane Landfill Site -- MSD Cap

I just called and got your voice mail. Feel free to call me back at 770-503-5700 for the next hour or so. I expect to be on the phone a lot during that time, so if we can't connect today, I should be free most of the day tomorrow in the office at 404-562-8139.

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Thursday, February 18, 2016 3:11 PM
To: Sheesley, John
Subject: Re: Lee's Lane Landfill Site -- MSD Cap

Yes!!

Sent from my iPhone

> On Feb 18, 2016, at 12:19 PM, Sheesley, John <Sheesley.John@epa.gov> wrote:
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> Sent: Friday, February 12, 2016 6:41 PM
> To: Sheesley, John

Sheesley, John

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Wednesday, March 02, 2016 6:01 PM
To: Sheesley, John
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Hi John-

any update on what we discussed?

thx
H

From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Monday, February 08, 2016 2:32 PM
To: Friedman, Heidi; lkirsch@goodwinprocter.com
Cc: Seadler, Donna; Waters, Melissa
Subject: Lee's Lane Landfill Site -- MSD Cap

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Thank you.

John P. Sheesley
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sheesley.john@epa.gov

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404-562-9486 (F)
sheesley.john@epa.gov

Sheesley, John

From: Friedman, Heidi <Heidi.Friedman@thompsonhine.com>
Sent: Friday, March 04, 2016 4:14 PM
To: Sheesley, John
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Great- thanks John!

From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Friday, March 04, 2016 4:05 PM
To: Friedman, Heidi
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Yes, we've decided to postpone consideration of this question until a later time. We'll let you know when we take it up again.

John P. Sheesley
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303
404-562-8139 (P)
404-562-9486 (F)
sheesley.john@epa.gov

From: Friedman, Heidi [mailto:Heidi.Friedman@thompsonhine.com]
Sent: Wednesday, March 02, 2016 6:01 PM
To: Sheesley, John <Sheesley.John@epa.gov>
Subject: RE: Lee's Lane Landfill Site -- MSD Cap

Hi John-

any update on what we discussed?

thx
H

From: Sheesley, John [mailto:Sheesley.John@epa.gov]
Sent: Monday, February 08, 2016 2:32 PM
To: Friedman, Heidi; lkirsch@goodwinprocter.com
Cc: Seadler, Donna; Waters, Melissa
Subject: Lee's Lane Landfill Site -- MSD Cap

Larry and Heidi:

As you know, EPA issued an Administrative Order on Consent (AOC) to Respondents Louisville and Jefferson County Metropolitan Sewer District (MSD) and Jefferson County, Kentucky, in 1991 concerning the Lee's Lane Landfill Site.

Sheesley, John

From: Cleveland, Daniel (EEC) <Daniel.Cleveland@ky.gov>
Sent: Friday, March 04, 2016 9:27 PM
To: Sheesley, John
Subject: RE: Lee's Lane Landfill Site - MSD Cap

John,

Thanks for the email. I was scheduling something with Dan and Christoph to discuss. We'll have something all ready to go when the time comes.

From: Sheesley, John [Sheesley.John@epa.gov]
Sent: Friday, March 04, 2016 4:03 PM
To: Cleveland, Daniel (EEC)
Subject: Lee's Lane Landfill Site - MSD Cap

Daniel: I called your office just now but found you're out, so I'm sending a quick email to let you know that the EPA is postponing its decision as to whether MSD's expenses have hit the cap set forth in its settlement agreement for the Lee's Lane Landfill Site. After talking with the PRP group some more about this issue, we'd prefer not to upset the working relationship that the parties have established or the progress that's being made on site issues now. I expect we will take up the cap issue again in the future, and we'll seek your input again at that time. If you have any questions, feel free to give me a call. Thank you.

John P. Sheesley
Office of Regional Counsel
U.S. Environmental Protection Agency, Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, GA 30303
404-562-8139 (P)
404-562-9486 (F)
sheesley.john@epa.gov

June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Exemption 6 Personal Privacy

Sample Number	Regional	239-0615-0103	239-0615-0101
Location	Screening	Unit 032	Unit 032
Sub Location	Level	AMB	LR
Matrix	Air	Air	Air
Sample Date		6/11/2015	6/11/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
n Heptane	NS	0.70 U	3.6
n-Hexane	7300	0.70 U	7.9
2 Propanol (Isopropyl Alcohol)	73000	7.0 U	8.6 U
m,p-Xylenes	1000	1.0	13
Dichloromethane (Methylene Chloride)	1000	0.70 U	0.86 U
Methyl tert-Butyl Ether	110	0.14 U	0.17 U
Naphthalene	0.83	1.3	0.94
o Xylene	1000	0.70 U	3.9
Propene	31000	0.71	16
Styrene	10000	1.2	1.7
Tetrahydrofuran (THF)	21000	0.70 U	0.86 U
Toluene	52000	3.5	17
trans-1,2-Dichloroethene	NS	0.14 U	0.17 U
trans-1,3-Dichloropropene	NS	0.70 U	0.86 U
Trichlorofluoromethane (CFC 11)	7300	1.5	1.6
Vinyl Acetate	2100	7.0 U	9.7
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	510	700
Methane	NS	2.5	9.1
Helium	NS	NA	NA

VOC volatile organic compounds
µg/m³ micrograms per cubic meter, ppmv parts per million by volume, % percent
U not detected above specified reporting limit, J estimated
NS not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Exemption 6 Personal Privacy

Sample Number	Regional	239-0615-0103	239-0615-0101
Location	Screening	Unit 032	Unit 032
Sub Location	Level	AMB	LR
Matrix	Air	Air	Air
Sample Date		6/11/2015	6/11/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.41	4.8
1,3-Butadiene	0.8	0.28 U	5.2
Carbon Tetrachloride	4.1	0.63	0.62
Chloroform	102	0.2	0.31
Dibromochloromethane	1	0.14 U	0.17 U
1,4-Dichlorobenzene	2.5	0.14 U	3.9
1,2-Dichloroethane	1.1	0.14 U	0.17 U
Ethylbenzene	11	0.70 U	3.3
Tetrachloroethene	42	0.14 U	0.17 U
Trichloroethene (TCE)	2.1	0.14 U	0.17 U
Vinyl Chloride	1.6	0.14 U	0.17 U
1,1,1-Trichloroethane (TCA)	52000	0.14 U	0.17 U
1,1,2,2-Tetrachloroethane	0.48	0.14 U	0.17 U
1,1,2-Trichloroethane	1.8	0.14 U	0.17 U
1,1,2-Trichlorotrifluoroethane	310000	0.63	0.64
1,1-Dichloroethane (1,1-DCA)	18	0.14 U	0.17 U
1,1-Dichloroethene (1,1-DCE)	2100	0.14 U	0.17 U
1,2,3-Trichloropropane	3.1	0.70 UJ	0.86 UJ
1,2,4-Trimethylbenzene	73	0.70 U	2.9
1,2-Dibromoethane	0.047	0.14 U	0.17 U
1,2-Dichlorobenzene	2100	0.14 U	0.17 U
1,2-Dichloropropane	2.8	0.14 U	0.17 U
1,3,5-Trimethylbenzene	NS	0.70 U	0.86 U
1,3-Dichlorobenzene	NS	0.14 U	0.17 U
1,4-Dioxane	5.6	0.70 U	0.86 U
2-Butanone (MEK)	52000	7.0 U	8.6 U
2-Hexanone	310	0.70 U	0.86 U
4-Ethyltoluene	NS	0.70 U	0.91
4-Methyl-2-pentanone	31000	0.70 U	0.86 U
Acetone	320000	17	41
Bromoform	26	0.70 U	0.86 U
Bromomethane	52	0.28 U	0.34 U
Chlorobenzene	520	0.14 U	0.17 U
Chloroethane	100000	0.28 U	0.34 U
Chloromethane	940	0.33	1.8
cis-1,2-Dichloroethene	NS	0.14 U	0.17 U
cis-1,3-Dichloropropene	NS	0.70 U	0.86 U
Cyclohexane	63000	1.4 U	1.7 U
Dichlorodifluoromethane (CFC 12)	1000	2.7	2.7
Ethyl Acetate	730	4.1	5.5
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.70 U	0.86 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional Screening Level	239-0615-0102
Location		Unit 032
Sub Location		SS
Matrix	Soil Gas	Soil Gas
Sample Date		6/11/2015
Analysis		VOC
Analyte	µg/m³	µg/m³
Cyclohexane	630000	1.6 U
Dichlorodifluoromethane (CFC 12)	10000	2.9
Ethyl Acetate	7300	3.2
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U
n-Heptane	NS	0.82 U
n-Hexane	73000	0.82 U
2-Propanol (Isopropyl Alcohol)	730000	8.2 U
m,p-Xylenes	10000	2.0
Dichloromethane (Methylene Chloride)	10000	0.82 U
Methyl tert-Butyl Ether	1100	0.16 U
Naphthalene	8.3	2.9
o-Xylene	10000	0.82 U
Propene	310000	0.82 U
Styrene	100000	0.82 U
Tetrahydrofuran (THF)	210000	0.82 U
Toluene	520000	7.7
trans-1,2-Dichloroethene	NS	0.16 U
trans-1,3-Dichloropropene	NS	0.82 U
Trichlorofluoromethane (CFC 11)	73000	1.8
Vinyl Acetate	21000	8.2 U
Analysis	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	53000
Methane	NS	0.82 U
Helium	NS	NA

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

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REDACTED

Sample Number	Regional Screening Level	239-0615-0102
Location		Unit 032
Sub Location		SS
Matrix	Soil Gas	Soil Gas
Sample Date		6/11/2015
Analysis		VOC
Analyte	µg/m³	µg/m³
Benzene	31	0.16 U
1,3-Butadiene	8.0	0.33 U
Carbon Tetrachloride	41	0.22
Chloroform	1020	6.1
Dibromochloromethane	10	0.16 U
1,4-Dichlorobenzene	25	0.65
1,2-Dichloroethane	11	0.16 U
Ethylbenzene	110	0.82 U
Tetrachloroethene	420	3.1
Trichloroethene (TCE)	21	0.16 U
Vinyl Chloride	16	0.16 U
1,1,1-Trichloroethane (TCA)	520000	0.26
1,1,2,2-Tetrachloroethane	4.8	0.16 U
1,1,2-Trichloroethane	18	0.16 U
1,1,2-Trichlorotrifluoroethane	3100000	0.69
1,1-Dichloroethane (1,1-DCA)	180	0.16 U
1,1-Dichloroethene (1,1-DCE)	21000	0.16 U
1,2,3-Trichloropropane	31	0.82 UJ
1,2,4-Trimethylbenzene	730	0.82 U
1,2-Dibromoethane	0.47	0.16 U
1,2-Dichlorobenzene	21000	0.16 U
1,2-Dichloropropane	28	0.16 U
1,3,5-Trimethylbenzene	NS	0.82 U
1,3-Dichlorobenzene	NS	0.16 U
1,4-Dioxane	56	0.82 U
2-Butanone (MEK)	520000	8.2 U
2-Hexanone	3100	0.82 U
4-Ethyltoluene	NS	0.82 U
4-Methyl-2-pentanone	310000	0.82 U
Acetone	3200000	8.2 U
Bromoform	260	0.82 U
Bromomethane	520	0.33 U
Chlorobenzene	5200	0.18
Chloroethane	1000000	0.33 U
Chloromethane	9400	0.33 U
cis-1,2-Dichloroethene	NS	0.16 U
cis-1,3-Dichloropropene	NS	0.82 U

detected above the initial screening levels in the living space indoor air but were below a health-based risk management level. Neither 1,4-dichlorobenzene, benzene nor naphthalene were detected at elevated concentrations in the soil gas, indicating that common household products may be contributing to the levels in the indoor air and crawl space. These constituents are frequently found in cleaning products and mothballs. 1,3-butadiene has been found to be a byproduct of cigarette smoke.

Compound	Soil Gas Sampling Results	Soil Gas Vapor Intrusion Screening Level	Ambient Air Results	Indoor Air (First Floor) Results	Air Vapor Intrusion Screening Level
	Dec. 2014		June 2015		
1,3-Butadiene	28	8.0		5.2	0.81
1,4-Dichlorobenzene				3.9	2.5
Benzene				4.8	3.1
Napthalene			1.3	.94	.83

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because all results have remained below health-based risk management screening levels, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

REDACTED

December 16, 2015

Exemption 7 ____ (A) Interference with Enforcement Proceedings
____ (B) Right to Fair Trial
_X_ (C) Unwanted Invasion of Personal Privacy

Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) indoor air, one (1) ambient (outdoor) air, and one (1) soil gas sample were collected at your property for a total of three (3) samples in June 2015. Due to potential concerns about data quality, EPA attempted a second soil gas sample in July 2015 for comparison. Unusually wet conditions prevented a second soil gas sample from being successfully collected at that time. However, comparisons of the June and July 2015 soil gas results on those homes where it was successful indicate that the June 2015 data is satisfactory. The indoor air and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the exceedances from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was not detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Four constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,4-dichlorobenzene, benzene, and naphthalene). 1,3- butadiene was detected at levels above initial screening levels in the soil gas and indoor air but were below a health-based risk management level. 1,4-dichlorobenzene, benzene, and naphthalene were

Exemption 6 Personal Privacy

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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Sample Number	Regional	239-0615-0096	239-0615-0094	239-0615-0095
Location	Screening	Unit 007	Unit 007	Unit 007
Sub Location	Level	CS	LR	LR CO
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m^3	µg/m^3	µg/m^3	µg/m^3
n-Heptane	NS	1.0	2.0	2.2
n-Hexane	7300	1.1	0.85	0.98
2-Propanol (Isopropyl Alcohol)	73000	9.2 U	6.6 U	7.9 U
m,p-Xylenes	1000	4.5	9.7	11
Dichloromethane (Methylene Chloride)	1000	0.92 U	0.66 U	0.79 U
Methyl tert-Butyl Ether	110	0.18 U	0.13 U	0.16 U
Naphthalene	0.83	6.3	1.3	1.5
o-Xylene	1000	1.4	2.6	3.0
Propene	31000	12	16	17
Styrene	10000	1.3	4.0	4.7
Tetrahydrofuran (THF)	21000	0.92 U	0.66 U	0.79 U
Toluene	52000	18	17	20
trans-1,2-Dichloroethene	NS	0.18 U	0.13 U	0.16 U
trans-1,3-Dichloropropene	NS	0.92 U	0.66 U	0.79 U
Trichlorofluoromethane (CFC 11)	7300	7.7	15	17
Vinyl Acetate	2100	9.2 U	6.6 U	7.9 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	440	590	740
Methane	NS	1.4	1.5	1.4
Helium	NS	NA	NA	NA

VOC - volatile organic compounds

µg/m^3 - micrograms per cubic meter, ppmv - parts per million by volume,

U - not detected above specified reporting limit, J estimated

NS - not specified, NA-not analyzed

Exemption 6 Personal Privacy

REDACTED

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Air	239-0615-0096 Unit 007 CS Air 6/10/2015 VOC	239-0615-0094 Unit 007 LR Air 6/10/2015 VOC	239-0615-0095 Unit 007 LR GG Air 6/10/2015 VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	**3.3**	**5.6**	**6.4**
1,3-Butadiene	0.80	**2.8**	**4.3**	**4.7**
Carbon Tetrachloride	4.1	0.47	0.53	0.58
Chloroform	102	1.4	1.3	1.5
Dibromochloromethane	1.0	0.18 U	0.25	0.29
1,4-Dichlorobenzene	2.5	0.26	0.16	0.18
1,2-Dichloroethane	1.1	0.66	**1.8**	**2.1**
Ethylbenzene	11	1.7	4.0	4.6
Tetrachloroethene	42	0.29	0.13 U	0.16 U
Trichloroethene (TCE)	2.1	0.18 U	0.13 U	0.16 U
Vinyl Chloride	1.6	0.18 U	0.13 U	0.16 U
1,1,1-Trichloroethane (TCA)	52000	0.18 U	0.13 U	0.16 U
1,1,2,2-Tetrachloroethane	0.48	0.18 U	0.13 U	0.16 U
1,1,2-Trichloroethane	1.8	0.18 U	0.13 U	0.16 U
1,1,2-Trichlorotrifluoroethane	310000	0.53	0.59	0.68
1,1-Dichloroethane (1,1-DCA)	18	0.18 U	0.13 U	0.16 U
1,1-Dichloroethene (1,1-DCE)	2100	0.18 U	0.13 U	0.16 U
1,2,3-Trichloropropane	3.1	0.92 UJ	0.66 UJ	0.79 UJ
1,2,4-Trimethylbenzene	73	0.92 U	1.5	1.7
1,2-Dibromoethane	0.047	**0.18 U**	**0.13 U**	**0.16 U**
1,2-Dichlorobenzene	2100	0.18 U	0.13 U	0.16 U
1,2-Dichloropropane	2.8	0.18 U	0.13 U	0.16 U
1,3,5-Trimethylbenzene	NS	0.92 U	0.66 U	0.79 U
1,3-Dichlorobenzene	NS	0.18 U	0.13 U	0.16 U
1,4-Dioxane	5.6	0.92 U	0.66 U	0.79 U
2-Butanone (MEK)	52000	9.2 U	7.9	9.1
2-Hexanone	310	0.92 U	0.66 U	0.79 U
4-Ethyltoluene	NS	0.92 U	0.66 U	0.79 U
4-Methyl-2-pentanone	31000	0.92 U	0.66 U	0.79 U
Acetone	320000	27	66	74
Bromoform	26	0.92 U	0.66 U	0.79 U
Bromomethane	52	0.37 U	0.26 U	0.32 U
Chlorobenzene	520	0.18 U	0.13 U	0.16 U
Chloroethane	100000	0.37 U	0.26 U	0.32 U
Chloromethane	940	2.1	3.6	3.0
cis-1,2-Dichloroethene	NS	0.18 U	0.13 U	0.16 U
cis-1,3-Dichloropropene	NS	0.92 U	0.66 U	0.79 U
Cyclohexane	63000	1.8 U	1.3 U	1.6 U
Dichlorodifluoromethane (CFC 12)	1000	2.0	2.2	2.5
Ethyl Acetate	730	5.0	16	18
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.92 U	0.66 U	0.79 U

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TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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Sample Number	Regional	239-0615-0097	239-0715-0082	239-0715-0083
Location	Screening	Unit 007	Unit 007	Unit 007
Sub Location	Level	AMB	Ambient	Ambient CO
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	7/25/2015	7/25/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.85 U	0.87 U	2.2
n Hexane	7300	0.85 U	1.3	1.4
2-Propanol (Isopropyl Alcohol)	73000	8.5 U	8.7 U	12
m,p-Xylenes	1000	2.7	1.4	4.3
Dichloromethane (Methylene Chloride)	1000	0.85 U	0.87 U	0.76 U
Methyl tert-Butyl Ether	110	0.17 U	0.17 U	0.15 U
Naphthalene	0.83	2.3	0.87 U	2.1
o-Xylene	1000	1.3	0.87 U	1.8
Propene	31000	1.1	1.3	8.5
Styrene	10000	0.85 U	0.87 U	0.76 U
Tetrahydrofuran (THF)	21000	0.85 U	0.87 U	0.76 U
Toluene	52000	7.70	5.1	16
trans 1,2-Dichloroethene	NS	0.17 U	0.17 U	0.15 U
trans-1,3-Dichloropropene	NS	0.85 U	0.87 U	0.76 U
Trichlorofluoromethane (CFC 11)	7300	1.60	1.1	1.2
Vinyl Acetate	2100	8.5 U	8.7 U	7.6 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	550	0.17 U	0.15 U
Methane	NS	2.9	0.17 U	0.15 U
Helium	NS	NA	43 U	38 U

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % percent

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

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TABLE 2
June and July 2015 Air Sampling Results
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Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Air	239-0615-0097 Unit 007 AMB Air 6/10/2015 VOC	239-0715-0082 Unit 007 Ambient Air 7/25/2015 VOC	239-0715-0083 Unit 007 Ambient CO Air 7/25/2015 VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.57	0.45 U	0.46 U
1,3-Butadiene	0.80	0.34 U	0.35 U	0.32
Carbon Tetrachloride	4.1	0.54	0.45	0.45
Chloroform	102	0.43	0.26	0.27
Dibromochloromethane	1.0	0.17 U	0.17 U	0.15 U
1,4-Dichlorobenzene	2.5	0.17 U	0.17 U	0.15 U
1,2-Dichloroethane	1.1	0.17 U	0.17 U	0.15 U
Ethylbenzene	11	0.85 U	0.87 U	0.94
Tetrachloroethene	42	0.17 U	0.19	0.23
Trichloroethene (TCE)	2.1	0.17 U	0.17 U	0.15 U
Vinyl Chloride	1.6	0.17 U	0.17 U	0.15 U
1,1,1-Trichloroethane (TCA)	52000	0.17 U	0.17 U	0.15 U
1,1,2,2-Tetrachloroethane	0.48	0.17 U	0.17 U	0.15 U
1,1,2-Trichloroethane	1.8	0.17 U	0.17 U	0.15 U
1,1,2-Trichlorotrifluoroethane	310000	0.62	0.52	0.51
1,1-Dichloroethane (1,1-DCA)	18	0.17 U	0.17 U	0.15 U
1,1-Dichloroethene (1,1-DCE)	2100	0.17 U	0.17 U	0.15 U
1,2,3-Trichloropropane	3.1	0.85 UJ	0.87 UJ	0.76 UJ
1,2,4-Trimethylbenzene	73	1.50	0.87 U	3.0
1,2-Dibromoethane	0.047	0.17 U	0.17 U	0.15 U
1,2-Dichlorobenzene	2100	0.17 U	0.17 U	0.15 U
1,2-Dichloropropane	2.8	0.17 U	0.17 U	0.15 U
1,3,5-Trimethylbenzene	NS	0.85 U	0.87 U	0.76
1,3-Dichlorobenzene	NS	0.17 U	0.17 U	0.15 U
1,4-Dioxane	5.6	0.85 U	0.87 U	0.76 U
2-Butanone (MEK)	52000	8.5 U	8.7 U	7.6 U
2-Hexanone	310	0.85 U	0.87 U	0.76 U
4-Ethyltoluene	NS	0.85 U	0.87 U	0.76 U
4-Methyl-2-pentanone	31000	0.85 U	0.87 U	2.0
Acetone	320000	19.00	12	19
Bromoform	26	0.85 U	0.87 U	0.76 U
Bromomethane	52	0.34 U	0.17 U	0.15 U
Chlorobenzene	520	0.17 U	0.17 U	0.15 U
Chloroethane	100000	0.34 U	0.17 U	0.15 U
Chloromethane	940	0.34 U	0.35 U	0.30 U
cis-1,2-Dichloroethene	NS	0.17 U	0.17 U	0.15 U
cis-1,3-Dichloropropene	NS	0.85 U	0.87 U	0.76 U
Cyclohexane	63000	1.7 U	1.7 U	1.5 U
Dichlorodifluoromethane (CFC 12)	1000	2.9	2.4	2.4
Ethyl Acetate	730	6.2	2.0	4.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.85 U	0.87 U	0.76 U

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TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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Sample Number	Regional	239-0615-0105	239-0715-0081
Location	Screening	Unit 007	Unit 007
Sub Location	Level	SG	SG
Matrix	Soil Gas	Soil Gas	Soil Gas
Sample Date		6/10/2015	7/24/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
Cyclohexane	630000	13	1.6 U
Dichlorodifluoromethane (CFC 12)	10000	1.3	2.4
Ethyl Acetate	7300	1.6 U	1.8
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	0.79 U
n-Heptane	NS	22	0.79 U
n-Hexane	73000	34	3.5
2-Propanol (Isopropyl Alcohol)	730000	8.2 U	7.9 U
m,p-Xylenes	10000	28	1.7
Dichloromethane (Methylene Chloride)	10000	2.9	0.79 U
Methyl tert-Butyl Ether	1100	0.16 U	0.16 U
Naphthalene	8.3	1.5	0.79 U
o-Xylene	10000	11	0.79 U
Propene	310000	73	6.1
Styrene	100000	0.82 U	0.79 U
Tetrahydrofuran (THF)	210000	0.82 U	0.79 U
Toluene	520000	52	5.4
trans-1,2-Dichloroethene	NS	0.16 U	0.16 U
trans-1,3-Dichloropropene	NS	0.82 U	0.79 U
Trichlorofluoromethane (CFC 11)	73000	1.9	1.1
Vinyl Acetate	21000	8.2 U	8.0
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	20000	0.16 U
Methane	NS	7.9 U	0.16 U
Helium	NS	390000	53

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

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TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Soil Gas	239-0615-0105 Unit 007 SG Soil Gas 6/10/2015 VOC	239-0715-0081 Unit 007 SG Soil Gas 7/24/2015 VOC
Analyte	µg/m³	µg/m³	µg/m³
Benzene	31	11	0.51 U
1,3-Butadiene	8.0	5.9	0.32 U
Carbon Tetrachloride	41	0.37	0.45
Chloroform	1020	0.76	0.21
Dibromochloromethane	10	0.16 U	0.16 U
1,4-Dichlorobenzene	25	0.16 U	0.16 U
1,2-Dichloroethane	11	0.16 U	0.16 U
Ethylbenzene	110	8.90	0.79 U
Tetrachloroethene	420	1.60	0.16 U
Trichloroethene (TCE)	21	0.33	0.16 U
Vinyl Chloride	16	0.16 U	0.16 U
1,1,1-Trichloroethane (TCA)	520000	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	4.8	0.16 U	0.16 U
1,1,2-Trichloroethane	18	0.16 U	0.16 U
1,1,2-Trichlorotrifluoroethane	3100000	0.40	0.50
1,1-Dichloroethane (1,1-DCA)	180	0.16 U	0.16 U
1,1-Dichloroethene (1,1-DCE)	21000	0.16 U	0.16 U
1,2,3-Trichloropropane	31	0.82 UJ	0.79 UJ
1,2,4-Trimethylbenzene	730	11.00	0.94
1,2-Dibromoethane	0.47	0.16 U	0.16 U
1,2-Dichlorobenzene	21000	0.16 U	0.16 U
1,2-Dichloropropane	28	0.16 U	0.16 U
1,3,5-Trimethylbenzene	NS	4.30	0.79 U
1,3-Dichlorobenzene	NS	0.16 U	0.16 U
1,4-Dioxane	56	0.82 U	0.79 U
2-Butanone (MEK)	520000	8.2 U	7.9 U
2-Hexanone	3100	0.82 U	0.79 U
4-Ethyltoluene	NS	3.00	0.79 U
4-Methyl-2-pentanone	310000	0.82 U	0.79 U
Acetone	3200000	20.00	23
Bromoform	260	0.82 U	0.79 U
Bromomethane	520	0.33 U	0.16 U
Chlorobenzene	5200	0.16 U	0.16 U
Chloroethane	1000000	0.33 U	0.16 U
Chloromethane	9400	0.33 U	0.33
cis-1,2-Dichloroethene	NS	0.16 U	0.16 U
cis-1,3-Dichloropropene	NS	0.82 U	0.79 U

based risk management level. Neither naphthalene, benzene nor 1,2-dichlorethane were detected at elevated concentrations in the soil gas, indicating that common household products may be contributing to the levels in the indoor air and crawl space. These constituents are frequently found in cleaning products and mothballs. 1.3-butadiene can also be found in cigarette smoke.

Compound	Soil Gas Sampling Results	Soil Gas Vapor Intrusion Screening Level	Indoor Air (First Floor) Results	Indoor Air (Crawl Space) Results	Indoor Air (First Floor) Results	Indoor Air (First Floor) Results Duplicate	Ambient Air Results	Air Vapor Intrusion Screening Level
	Dec 2014		Nov 2014	June 2015				
1,3-Butadiene	23	8.0	6.7	2.8	4.3	4.7		0.81
1,2-Dichloroethane			1.6		1.8	2.1		1.1
Benzene			6.3	3.3	5.6	6.4		3.1
Naphthalene				6.3	1.3	1.5	2.3	.83

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because all results have remained below health-based risk management screening levels, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

Enclosures

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

December 16, 2015

REDACTED

Exemption 7 (A) Interference with Enforcement Proceedings
(B) Right to a Fair Trial
4 (C) Unwarranted Invasion of Personal Privacy

Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) crawl space air, two (2) indoor air, one (1) ambient (outdoor) air, and one (1) soil gas sample were collected at your property for a total of six (6) samples in June 2015. Due to potential concerns about data quality, a second soil gas sample was collected in July 2015 for comparison. Two (2) ambient air samples were taken at that time, also. The crawl space air, indoor air, and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the exceedances from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was **not** detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Four (4) constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,2-dichloroethane, benzene, and naphthalene). 1,3- butadiene was detected at levels above initial screening levels in the soil gas and indoor air but were below a health-based risk management level. 1,2-dichloroethane, benzene, and naphthalene were detected above the initial screening levels in the living space indoor air but were below a health-

Exemption 6 Personal Privacy

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Sample Number	Regional	239-0615-0096	239-0615-0094	239-0615-0095
Location	Screening	Unit 007	Unit 007	Unit 007
Sub Location	Level	CS	LR	LR CO
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
n-Heptane	NS	1.0	2.0	2.2
n-Hexane	7300	1.1	0 85	0.98
2-Propanol (Isopropyl Alcohol)	73000	9.2 U	6.6 U	7.9 U
m,p-Xylenes	1000	4.5	9.7	11
Dichloromethane (Methylene Chloride)	1000	0.92 U	0.66 U	0.79 U
Methyl tert-Butyl Ether	110	0.18 U	0.13 U	0.16 U
Naphthalene	0.83	6.3	1.3	1.5
o-Xylene	1000	1.4	2.6	3.0
Propene	31000	12	16	17
Styrene	10000	1.3	4.0	4.7
Tetrahydrofuran (THF)	21000	0.92 U	0.66 U	0.79 U
Toluene	52000	18	17	20
trans-1,2-Dichloroethene	NS	0.18 U	0.13 U	0.16 U
trans-1,3-Dichloropropene	NS	0.92 U	0.66 U	0.79 U
Trichlorofluoromethane (CFC 11)	7300	7.7	15	17
Vinyl Acetate	2100	9.2 U	6 6 U	7.9 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	440	590	740
Methane	NS	1.4	1 5	1 4
Helium	NS	NA	NA	NA

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume,

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Air	239-0615-0096 Unit 007 CS Air 6/10/2015 VOC	239-0615-0094 Unit 007 LR Air 6/10/2015 VOC	239-0615-0095 Unit 007 LR CO Air 6/10/2015 VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	3.3	5.6	6.4
1,3-Butadiene	0.80	2.8	4.3	4.7
Carbon Tetrachloride	4.1	0.47	0.53	0.58
Chloroform	102	1.4	1.3	1.5
Dibromochloromethane	1.0	0.18 U	0.25	0.29
1,4-Dichlorobenzene	2.5	0.26	0.16	0.18
1,2-Dichloroethane	1.1	0.66	1.8	2.1
Ethylbenzene	11	1.7	4.0	4.6
Tetrachloroethene	42	0.29	0.13 U	0.16 U
Trichloroethene (TCE)	2.1	0.18 U	0.13 U	0.16 U
Vinyl Chloride	1.6	0.18 U	0.13 U	0.16 U
1,1,1-Trichloroethane (TCA)	52000	0.18 U	0.13 U	0.16 U
1,1,2,2-Tetrachloroethane	0.48	0.18 U	0.13 U	0.16 U
1,1,2-Trichloroethane	1.8	0.18 U	0.13 U	0.16 U
1,1,2-Trichlorotrifluoroethane	310000	0.53	0.59	0.68
1,1-Dichloroethane (1,1-DCA)	18	0.18 U	0.13 U	0.16 U
1,1-Dichloroethene (1,1-DCE)	2100	0.18 U	0.13 U	0.16 U
1,2,3-Trichloropropane	3.1	0.92 UJ	0.66 UJ	0.79 UJ
1,2,4-Trimethylbenzene	73	0.92 U	1.5	1.7
1,2-Dibromoethane	0.047	0.18 U	0.13 U	0.16 U
1,2-Dichlorobenzene	2100	0.18 U	0.13 U	0.16 U
1,2-Dichloropropane	2.8	0.18 U	0.13 U	0.16 U
1,3,5-Trimethylbenzene	NS	0.92 U	0.66 U	0.79 U
1,3-Dichlorobenzene	NS	0.18 U	0.13 U	0.16 U
1,4-Dioxane	5.6	0.92 U	0.66 U	0.79 U
2-Butanone (MEK)	52000	9.2 U	7.9	9.1
2-Hexanone	310	0.92 U	0.66 U	0.79 U
4-Ethyltoluene	NS	0.92 U	0.66 U	0.79 U
4-Methyl-2-pentanone	31000	0.92 U	0.66 U	0.79 U
Acetone	320000	27	66	74
Bromoform	26	0.92 U	0.66 U	0.79 U
Bromomethane	52	0.37 U	0.26 U	0.32 U
Chlorobenzene	520	0.18 U	0.13 U	0.16 U
Chloroethane	100000	0.37 U	0.26 U	0.32 U
Chloromethane	940	2.1	3.6	3.0
cis-1,2-Dichloroethene	NS	0.18 U	0.13 U	0.16 U
cis-1,3-Dichloropropene	NS	0.92 U	0.66 U	0.79 U
Cyclohexane	63000	1.8 U	1.3 U	1.6 U
Dichlorodifluoromethane (CFC 12)	1000	2.0	2.2	2.5
Ethyl Acetate	730	5.0	16	18
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.92 U	0.66 U	0.79 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Sample Number	Regional	239-0615-0097	239-0715-0082	239-0715-0083
Location	Screening	Unit 007	Unit 007	Unit 007
Sub Location	Level	AMB	Ambient	Ambient CO
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	7/25/2015	7/25/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.85 U	0.87 U	2.2
n-Hexane	7300	0.85 U	1.3	1.4
2-Propanol (Isopropyl Alcohol)	73000	8.5 U	8.7 U	12
m,p-Xylenes	1000	2.7	1.4	4.3
Dichloromethane (Methylene Chloride)	1000	0.85 U	0.87 U	0.76 U
Methyl tert-Butyl Ether	110	0.17 U	0.17 U	0.15 U
Naphthalene	0.83	2.3	0.87 U	2.1
o-Xylene	1000	1.3	0.87 U	1.8
Propene	31000	1.1	1.3	8.5
Styrene	10000	0.85 U	0.87 U	0.76 U
Tetrahydrofuran (THF)	21000	0.85 U	0.87 U	0.76 U
Toluene	52000	7.70	5.1	16
trans-1,2-Dichloroethene	NS	0.17 U	0.17 U	0.15 U
trans-1,3-Dichloropropene	NS	0.85 U	0.87 U	0.76 U
Trichlorofluoromethane (CFC 11)	7300	1.60	1.1	1.2
Vinyl Acetate	2100	8.5 U	8.7 U	7.6 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	550	0.17 U	0.15 U
Methane	NS	2.9	0.17 U	0.15 U
Helium	NS	NA	43 U	38 U

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

Exemption 6 Personal Privacy

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TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Air	239-0615-0097 Unit 007 AMB Air 6/10/2015 VOC	239-0715-0082 Unit 007 Ambient Air 7/25/2015 VOC	239-0715-0083 Unit 007 Ambient CO Air 7/25/2015 VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.57	0.45 U	0.46 U
1,3-Butadiene	0.80	0.34 U	0.35 U	0.32
Carbon Tetrachloride	4.1	0.54	0.45	0.45
Chloroform	102	0.43	0.26	0.27
Dibromochloromethane	1.0	0.17 U	0.17 U	0.15 U
1,4-Dichlorobenzene	2.5	0.17 U	0.17 U	0.15 U
1,2-Dichloroethane	1.1	0.17 U	0.17 U	0.15 U
Ethylbenzene	11	0.85 U	0.87 U	0.94
Tetrachloroethene	42	0.17 U	0.19	0.23
Trichloroethene (TCE)	2.1	0.17 U	0.17 U	0.15 U
Vinyl Chloride	1.6	0.17 U	0.17 U	0.15 U
1,1,1-Trichloroethane (TCA)	52000	0.17 U	0.17 U	0.15 U
1,1,2,2-Tetrachloroethane	0.48	0.17 U	0.17 U	0.15 U
1,1,2-Trichloroethane	1.8	0.17 U	0.17 U	0.15 U
1,1,2-Trichlorotrifluoroethane	310000	0.62	0.52	0.51
1,1-Dichloroethane (1,1-DCA)	18	0.17 U	0.17 U	0.15 U
1,1-Dichloroethene (1,1-DCE)	2100	0.17 U	0.17 U	0.15 U
1,2,3-Trichloropropane	3.1	0.85 UJ	0.87 UJ	0.76 UJ
1,2,4-Trimethylbenzene	73	1.50	0.87 U	3.0
1,2-Dibromoethane	0.047	0.17 U	0.17 U	0.15 U
1,2-Dichlorobenzene	2100	0.17 U	0.17 U	0.15 U
1,2-Dichloropropane	2.8	0.17 U	0.17 U	0.15 U
1,3,5-Trimethylbenzene	NS	0.85 U	0.87 U	0.76
1,3-Dichlorobenzene	NS	0.17 U	0.17 U	0.15 U
1,4-Dioxane	5.6	0.85 U	0.87 U	0.76 U
2-Butanone (MEK)	52000	8.5 U	8.7 U	7.6 U
2-Hexanone	310	0.85 U	0.87 U	0.76 U
4-Ethyltoluene	NS	0.85 U	0.87 U	0.76 U
4-Methyl-2-pentanone	31000	0.85 U	0.87 U	2.0
Acetone	320000	19.00	12	19
Bromoform	26	0.85 U	0.87 U	0.76 U
Bromomethane	52	0.34 U	0.17 U	0.15 U
Chlorobenzene	520	0.17 U	0.17 U	0.15 U
Chloroethane	100000	0.34 U	0.17 U	0.15 U
Chloromethane	940	0.34 U	0.35 U	0.30 U
cis-1,2-Dichloroethene	NS	0.17 U	0.17 U	0.15 U
cis-1,3-Dichloropropene	NS	0.85 U	0.87 U	0.76 U
Cyclohexane	63000	1.7 U	1.7 U	1.5 U
Dichlorodifluoromethane (CFC 12)	1000	2.9	2.4	2.4
Ethyl Acetate	730	6.2	2.0	4.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.85 U	0.87 U	0.76 U

Exemption 6 Personal Privacy

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Sample Number	Regional	239-0615-0105	239-0715-0081
Location	Screening	Unit 007	Unit 007
Sub Location	Level	SG	SG
Matrix	Soil Gas	Soil Gas	Soil Gas
Sample Date		6/10/2015	7/24/2015
Analysis		VOC	VOC
Analyte	$\mu g/m^3$	$\mu g/m^3$	$\mu g/m^3$
Cyclohexane	630000	13	1.6 U
Dichlorodifluoromethane (CFC 12)	10000	1.3	2.4
Ethyl Acetate	7300	1.6 U	1.8
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	0.79 U
n-Heptane	NS	22	0.79 U
n-Hexane	73000	34	3.5
2-Propanol (Isopropyl Alcohol)	730000	8.2 U	7.9 U
m,p-Xylenes	10000	28	1.7
Dichloromethane (Methylene Chloride)	10000	2.9	0.79 U
Methyl tert-Butyl Ether	1100	0.16 U	0.16 U
Naphthalene	8.3	1.5	0.79 U
o-Xylene	10000	11	0.79 U
Propene	310000	73	6.1
Styrene	100000	0.82 U	0.79 U
Tetrahydrofuran (THF)	210000	0.82 U	0.79 U
Toluene	520000	52	5.4
trans-1,2-Dichloroethene	NS	0.16 U	0.16 U
trans-1,3-Dichloropropene	NS	0.82 U	0.79 U
Trichlorofluoromethane (CFC 11)	73000	1.9	1.1
Vinyl Acetate	21000	8.2 U	8.0
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	20000	0.16 U
Methane	NS	7.9 U	0.16 U
Helium	NS	390000	53

VOC - volatile organic compounds

$\mu g/m^3$ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

Exemption 6 Personal Privacy

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Soil Gas	239-0615-0105 Unit 007 SG Soil Gas 6/10/2015 VOC	239-0715-0081 Unit 007 SG Soil Gas 7/24/2015 VOC
Analyte	µg/m³	µg/m³	µg/m³
Benzene	31	11	0.51 U
1,3-Butadiene	8.0	5.9	0.32 U
Carbon Tetrachloride	41	0.37	0.45
Chloroform	1020	0.76	0.21
Dibromochloromethane	10	0.16 U	0.16 U
1,4-Dichlorobenzene	25	0.16 U	0.16 U
1,2-Dichloroethane	11	0.16 U	0.16 U
Ethylbenzene	110	8.90	0.79 U
Tetrachloroethene	420	1.60	0.16 U
Trichloroethene (TCE)	21	0.33	0.16 U
Vinyl Chloride	16	0.16 U	0.16 U
1,1,1-Trichloroethane (TCA)	520000	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	4.8	0.16 U	0.16 U
1,1,2-Trichloroethane	18	0.16 U	0.16 U
1,1,2-Trichlorotrifluoroethane	3100000	0.40	0.50
1,1-Dichloroethane (1,1-DCA)	180	0.16 U	0.16 U
1,1-Dichloroethene (1,1-DCE)	21000	0.16 U	0.16 U
1,2,3-Trichloropropane	31	0.82 UJ	0.79 UJ
1,2,4-Trimethylbenzene	730	11.00	0.94
1,2-Dibromoethane	0.47	0.16 U	0.16 U
1,2-Dichlorobenzene	21000	0.16 U	0.16 U
1,2-Dichloropropane	28	0.16 U	0.16 U
1,3,5-Trimethylbenzene	NS	4.30	0.79 U
1,3-Dichlorobenzene	NS	0.16 U	0.16 U
1,4-Dioxane	56	0.82 U	0.79 U
2-Butanone (MEK)	520000	8.2 U	7.9 U
2-Hexanone	3100	0.82 U	0.79 U
4-Ethyltoluene	NS	3.00	0.79 U
4-Methyl-2-pentanone	310000	0.82 U	0.79 U
Acetone	3200000	20.00	23
Bromoform	260	0.82 U	0.79 U
Bromomethane	520	0.33 U	0.16 U
Chlorobenzene	5200	0.16 U	0.16 U
Chloroethane	1000000	0.33 U	0.16 U
Chloromethane	9400	0.33 U	0.33
cis-1,2-Dichloroethene	NS	0.16 U	0.16 U
cis-1,3-Dichloropropene	NS	0.82 U	0.79 U

based risk management level. Neither naphthalene, benzene, nor 1,2-dichlorethane were detected at elevated concentrations in the soil gas, indicating that common household products may be contributing to the levels in the indoor air and crawl space. These constituents are frequently found in cleaning products and mothballs. 1,3-butadiene can also be found in cigarette smoke.

Compound	Soil Gas Sampling Results	Soil Gas Vapor Intrusion Screening Level	Indoor Air (First Floor) Results	Indoor Air (Crawl Space) Results	Indoor Air (First Floor) Results	Indoor Air (First Floor) Results Duplicate	Ambient Air Results	Air Vapor Intrusion Screening Level
	Dec 2014		Nov 2014	June 2015				
1,3–Butadiene	23	8.0	6.7	2.8	4.3	4.7		0.81
1,2–Dichloroethane			1.6		1.8	2.1		1.1
Benzene			6.3	3.3	5.6	6.4		3.1
Naphthalene				6.3	1.3	1.5	2.3	.83

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because all results have remained below health-based risk management screening levels, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

Enclosures

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

December 16, 2015

REDACTED

Exemption 7 ___ (A) Interference with Enforcement Proceedings
___ (B) Right to Fair Trial
X (C) Unwarranted Invasion of Personal Privacy

Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) crawl space air, two (2) indoor air, one (1) ambient (outdoor) air, and one (1) soil gas sample were collected at your property for a total of six (6) samples in June 2015. Due to potential concerns about data quality, a second soil gas sample was collected in July 2015 for comparison. Two (2) ambient air samples were taken at that time, also. The crawl space air, indoor air, and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the exceedances from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was **not** detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Four (4) constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,2-dichloroethane, benzene, and naphthalene). 1,3- butadiene was detected at levels above initial screening levels in the soil gas and indoor air but were below a health-based risk management level. 1,2-dichloroethane, benzene, and naphthalene were detected above the initial screening levels in the living space indoor air but were below a health-

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

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Exemption 6 Personal Privacy

Sample Number	Regional Screening Level	239-0615-0090	239-0615-0091
Location		Unit 033	Unit 033
Sub Location		CS	CS CO
Matrix		Air	Air
Sample Date		6/10/2015	6/10/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.82 U	0.75 U
n-Hexane	7300	0.86	0.94
2-Propanol (Isopropyl Alcohol)	73000	8.2 U	7.5 U
m,p-Xylenes	1000	1.1	1.1
Dichloromethane (Methylene Chloride)	1000	0.82 U	0.75 U
Methyl tert-Butyl Ether	110	0.16 U	0.15 U
Naphthalene	0.83	0.82 U	0.75 U
o-Xylene	1000	0.82 U	0.75 U
Propene	31000	0.90	0.92
Styrene	10000	1.0	1.0
Tetrahydrofuran (THF)	21000	0.82 U	0.75 U
Toluene	52000	2.7	2.5
trans-1,2-Dichloroethene	NS	0.16 U	0.15 U
trans-1,3-Dichloropropene	NS	0.82 U	0.75 U
Trichlorofluoromethane (CFC 11)	7300	1.7	1.7
Vinyl Acetate	2100	8.2 U	7.5 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	680	730
Methane	NS	14	15
Helium	NS	NA	NA

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % -

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

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Exemption 6 Personal Privacy

Sample Number	Regional Screening Level	239-0615-0090	239-0615-0091
Location		Unit 033	Unit 033
Sub-Location		CS	CS CD
Matrix		Air	Air
Sample Date		6/10/2015	6/10/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.90	0.56
1,3-Butadiene	0.80	0.33 U	0.30 U
Carbon Tetrachloride	4.1	0.48	0.49
Chloroform	102	0.64	0.67
Dibromochloromethane	1	0.16 U	0.15 U
1,4-Dichlorobenzene	2.5	5.2	5.3
1,2-Dichloroethane	1.1	0.68	0.68
Ethylbenzene	11	0.82 U	0.75 U
Tetrachloroethene	42	0.16 U	0.15 U
Trichloroethene (TCE)	2.1	0.16 U	0.15 U
Vinyl Chloride	1.6	0.16 U	0.15 U
1,1,1-Trichloroethane (TCA)	52000	0.16 U	0.15 U
1,1,2,2-Tetrachloroethane	0.48	0.16 U	0.15 U
1,1,2-Trichloroethane	1.8	0.16 U	0.15 U
1,1,2-Trichlorotrifluoroethane	310000	0.56	0.55
1,1-Dichloroethane (1,1-DCA)	18	0.16 U	0.15 U
1,1-Dichloroethene (1,1-DCE)	2100	0.16 U	0.15 U
1,2,3-Trichloropropane	3.1	0.82 UJ	0.75 UJ
1,2,4-Trimethylbenzene	73	2.2	2.3
1,2-Dibromoethane	0.047	0.16 U	0.15 U
1,2-Dichlorobenzene	2100	0.16 U	0.15 U
1,2-Dichloropropane	2.8	0.16 U	0.15 U
1,3,5-Trimethylbenzene	NS	0.82 U	0.75
1,3-Dichlorobenzene	NS	0.16 U	0.15 U
1,4-Dioxane	5.6	0.82 U	0.75 U
2-Butanone (MEK)	52000	8.2 U	7.5 U
2-Hexanone	310	0.82 U	0.75 U
4-Ethyltoluene	NS	0.82 U	0.75 U
4-Methyl-2-pentanone	31000	0.82 U	0.75 U
Acetone	320000	17	25
Bromoform	26	0.82 U	0.75 U
Bromomethane	52	0.33 U	0.30 U
Chlorobenzene	520	0.16 U	0.15 U
Chloroethane	100000	0.33 U	0.3 U
Chloromethane	940	0.46	0.49
cis-1,2-Dichloroethene	NS	0.16 U	0.15 U
cis-1,3-Dichloropropene	NS	0.82 U	0.75 U
Cyclohexane	63000	1.6 U	1.5 U
Dichlorodifluoromethane (CFC 12)	1000	2.1	2.1
Ethyl Acetate	730	4.2	3.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	0.75 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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Exemption 6 Personal Privacy

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Sample Number	Regional Screening Level	239-0615-0092	239-0615-0093
Location		Unit 033	Unit 033
Sub Location		AMB	LR
Matrix	Air	Air	Air
Sample Date		6/10/2015	6/10/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.82 U	0.74 U
n-Hexane	7300	0.82 U	1.2
2-Propanol (Isopropyl Alcohol)	73000	8.2 U	7.4 U
m,p-Xylenes	1000	1.1	1.4
Dichloromethane (Methylene Chloride)	1000	0.82 U	0.74 U
Methyl tert-Butyl Ether	110	0.16 U	0.15 U
Naphthalene	0.83	0.98	0.74 U
o-Xylene	1000	0.82 U	0.78
Propene	31000	1.3	1.3
Styrene	10000	0.82 U	1.4
Tetrahydrofuran (THF)	21000	0.82 U	0.74 U
Toluene	52000	4.9	2.9
trans-1,2-Dichloroethene	NS	0.16 U	0.15 U
trans-1,3-Dichloropropene	NS	0.82 U	0.74 U
Trichlorofluoromethane (CFC 11)	7300	1.3	2.0
Vinyl Acetate	2100	8.2 U	7.4 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	270	550
Methane	NS	1.2	14
Helium	NS	NA	NA

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional Screening Level	239-0615-0092	239-0615-0093
Location		Unit 033	Unit 033
Sub Location		AMB	LR
Matrix	Air	Air	Air
Sample Date		6/10/2015	6/10/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.53	0.63
1,3-Butadiene	0.80	0.33 U	0.29 U
Carbon Tetrachloride	4.1	0.47	0.47
Chloroform	102	0.17	0.75
Dibromochloromethane	1	0.16 U	0.15 U
1,4-Dichlorobenzene	2.5	0.16 U	7.2
1,2-Dichloroethane	1.1	0.16 U	1.1
Ethylbenzene	11	0.82 U	0.74 U
Tetrachloroethene	42	0.16 U	0.15 U
Trichloroethene (TCE)	2.1	0.16 U	0.15 U
Vinyl Chloride	1.6	0.16 U	0.15 U
1,1,1-Trichloroethane (TCA)	52000	0.16 U	0.15 U
1,1,2,2-Tetrachloroethane	0.48	0.16 U	0.15 U
1,1,2-Trichloroethane	1.8	0.16 U	0.15 U
1,1,2-Trichlorotrifluoroethane	310000	0.55	0.56
1,1-Dichloroethane (1,1-DCA)	18	0.16 U	0.15 U
1,1-Dichloroethene (1,1-DCE)	2100	0.16 U	0.15 U
1,2,3-Trichloropropane	3.1	0.82 UJ	0.74 UJ
1,2,4-Trimethylbenzene	73	0.82 U	3.2
1,2-Dibromoethane	0.047	0.16 U	0.15 U
1,2-Dichlorobenzene	2100	0.16 U	0.15 U
1,2-Dichloropropane	2.8	0.16 U	0.15 U
1,3,5-Trimethylbenzene	NS	0.82 U	1.0
1,3-Dichlorobenzene	NS	0.16 U	0.15 U
1,4-Dioxane	5.6	0.82 U	0.74 U
2-Butanone (MEK)	52000	8.2 U	7.4 U
2-Hexanone	310	0.82 U	0.74 U
4-Ethyltoluene	NS	0.82 U	0.74 U
4-Methyl-2-pentanone	31000	0.82 U	0.74 U
Acetone	320000	9.6	36
Bromoform	26	0.82 U	0.74 U
Bromomethane	52	0.33 U	0.29 U
Chlorobenzene	520	0.16 U	0.15 U
Chloroethane	100000	0.33 U	0.29 U
Chloromethane	940	0.51	0.62 J
cis-1,2-Dichloroethene	NS	0.16 U	0.15 U
cis-1,3-Dichloropropene	NS	0.82 U	0.74 U
Cyclohexane	63000	1.6 U	1.5 U
Dichlorodifluoromethane (CFC 12)	1000	2.1	2.1
Ethyl Acetate	730	3.1	7.2
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	0.74 U

Exemption 6 Personal Privacy

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TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Sample Number	Regional	239-0615-0110
Location	Screening	Unit 033
Sub Location	Level	SG
Matrix	Soil Gas	Soil Gas
Sample Date		6/10/2015
Analysis		VOC
Analyte	µg/m^3	µg/m^3
Cyclohexane	630000	12
Dichlorodifluoromethane (CFC 12)	10000	1.3
Ethyl Acetate	7300	1.4 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.69 U
n-Heptane	NS	32
n-Hexane	73000	53
2-Propanol (Isopropyl Alcohol)	730000	6.9 U
m,p-Xylenes	10000	41
Dichloromethane (Methylene Chloride)	10000	1.5
Methyl tert-Butyl Ether	1100	0.14 U
Naphthalene	8.3	1.4
o-Xylene	10000	15
Propene	310000	430
Styrene	100000	0.76
Tetrahydrofuran (THF)	210000	0.69 U
Toluene	520000	58
trans-1,2-Dichloroethene	NS	0.14 U
trans-1,3-Dichloropropene	NS	0.69 U
Trichlorofluoromethane (CFC 11)	73000	0.89
Vinyl Acetate	21000	6.9 U
Analysis	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	2000
Methane	NS	5.9
Helium	NS	270000

VOC - volatile organic compounds

µg/m^3 - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

Exemption 6 Personal Privacy

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TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Soil Gas	239-0615-0110 Unit 033 SG Soil Gas 6/10/2015 VOC
Analyte	µg/m³	µg/m³
Benzene	31	9.2
1,3-Butadiene	8.0	11
Carbon Tetrachloride	41	0.51
Chloroform	1020	1.7
Dibromochloromethane	10	0.14 U
1,4-Dichlorobenzene	25	0.35
1,2-Dichloroethane	11	0.14 U
Ethylbenzene	110	12
Tetrachloroethene	420	1.8
Trichloroethene (TCE)	21	0.14
Vinyl Chloride	16	0.14 U
1,1,1-Trichloroethane (TCA)	520000	0.14
1,1,2,2-Tetrachloroethane	4.8	0.14 U
1,1,2-Trichloroethane	18	0.14 U
1,1,2-Trichlorotrifluoroethane	3100000	0.31
1,1-Dichloroethane (1,1-DCA)	180	0.14 U
1,1-Dichloroethene (1,1-DCE)	21000	0.14 U
1,2,3-Trichloropropane	31	0.69 UJ
1,2,4-Trimethylbenzene	730	20
1,2-Dibromoethane	0.47	0.14 U
1,2-Dichlorobenzene	21000	0.14 U
1,2-Dichloropropane	28	0.14 U
1,3,5-Trimethylbenzene	NS	6.9
1,3-Dichlorobenzene	NS	0.14 U
1,4-Dioxane	56	0.69 U
2-Butanone (MEK)	520000	6.9 U
2-Hexanone	3100	0.69 U
4-Ethyltoluene	NS	5.7
4-Methyl-2-pentanone	310000	0.69 U
Acetone	3200000	11
Bromoform	260	0.69 U
Bromomethane	520	0.28 U
Chlorobenzene	5200	0.14 U
Chloroethane	1000000	0.28 U
Chloromethane	9400	0.28 U
cis-1,2-Dichloroethene	NS	0.14 U
cis-1,3-Dichloropropene	NS	0.69 U

screening levels in the crawl space and living space indoor air but were below a health-based risk management level. 1,4-dichlorobenzene was not detected at elevated concentrations in the soil gas, indicating that common household products may be contributing to the levels in the indoor air and crawl space. 1,4-dichlorobenzene is commonly found in cleaning products and mothballs. Naphthalene was detected above initial screening levels in the ambient air but was below health-based risk management levels.

Compound	Soil Gas Sampling Results		Soil Gas Vapor Intrusion Screening Level	Indoor Air (Crawl Space) Results	Indoor Air (Crawl Space) Results Duplicate	Indoor Air (First Floor) Results	Ambient Air Results	Air Vapor Intrusion Screening Level
	Dec. 2014	June 2015		June 2015				
1,3-Butadiene	28	11	8.0					0.81
1,4-Dichlorobenzene				5.2	5.3	7.2		2.5
Naphthalene							.98	.83

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because all results have remained below health-based risk management screening levels, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

REDACTED

Exemption 7 ____ (A) Interference with Enforcement Proceedings December 16, 2015
____ (B) Right to Fair Trial
__X__ (C) Unwanted Invasion of Personal Privacy Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear Current Resident:

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) indoor air, two (2) crawl space, (1) ambient (outdoor) air, and one (1) soil gas sample were collected at your property for a total of five (5) samples in June 2015. Due to potential concerns about data quality, EPA attempted a second soil gas sample in July 2015 for comparison. Unusually wet conditions prevented a second soil gas sample from being successfully collected at that time. However, comparisons of the June and July 2015 soil gas results on those homes where it was successful indicate that the June 2015 data is satisfactory. The indoor air and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the exceedances from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was **not** detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Three (3) constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,4-dichlorobenzene, and naphthalene). 1,3- butadiene was detected at levels above initial screening levels in the soil gas but there were no exceedances in the crawl space or living space indoor air. 1,4-dichlorobenzene was detected above the initial

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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Exemption 6 Personal Privacy

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Sample Number	Regional	239-0615-0090	239-0615-0091
Location	Screening	Unit 033	Unit 033
Sub Location	Level	CS	CS CO
Matrix	Air	Air	Air
Sample Date		6/10/2015	6/10/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.82 U	0.75 U
n-Hexane	7300	0.86	0.94
2-Propanol (Isopropyl Alcohol)	73000	8.2 U	7.5 U
m,p-Xylenes	1000	1.1	1.1
Dichloromethane (Methylene Chloride)	1000	0.82 U	0.75 U
Methyl tert-Butyl Ether	110	0.16 U	0.15 U
Naphthalene	0.83	0.82 U	0.75 U
o-Xylene	1000	0.82 U	0.75 U
Propene	31000	0.90	0.92
Styrene	10000	1.0	1.0
Tetrahydrofuran (THF)	21000	0.82 U	0.75 U
Toluene	52000	2.7	2.5
trans-1,2-Dichloroethene	NS	0.16 U	0.15 U
trans-1,3-Dichloropropene	NS	0.82 U	0.75 U
Trichlorofluoromethane (CFC 11)	7300	1.7	1.7
Vinyl Acetate	2100	8.2 U	7.5 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	680	730
Methane	NS	14	15
Helium	NS	NA	NA

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, %

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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REDACTED

Exemption 6 Personal Privacy

Sample Number	Regional Screening Level Air	239:0615-0090	239:0615-0091
Location		Unit033	Unit033
Sub Location		CS	CS-DO
Matrix		Air	Air
Sample Date		6/10/2015	6/10/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.90	0.56
1,3-Butadiene	0.80	0.33 U	0.30 U
Carbon Tetrachloride	4.1	0.48	0.49
Chloroform	102	0.64	0.67
Dibromochloromethane	1	0.16 U	0.15 U
1,4-Dichlorobenzene	2.5	5.2	5.3
1,2-Dichloroethane	1.1	0.68	0.68
Ethylbenzene	11	0.82 U	0.75 U
Tetrachloroethene	42	0.16 U	0.15 U
Trichloroethene (TCE)	2.1	0.16 U	0.15 U
Vinyl Chloride	1.6	0.16 U	0.15 U
1,1,1-Trichloroethane (TCA)	52000	0.16 U	0.15 U
1,1,2,2-Tetrachloroethane	0.48	0.16 U	0.15 U
1,1,2-Trichloroethane	1.8	0.16 U	0.15 U
1,1,2-Trichlorotrifluoroethane	310000	0.56	0.55
1,1-Dichloroethane (1,1-DCA)	18	0.16 U	0.15 U
1,1-Dichloroethene (1,1-DCE)	2100	0.16 U	0.15 U
1,2,3-Trichloropropane	3.1	0.82 UJ	0.75 UJ
1,2,4-Trimethylbenzene	73	2.2	2.3
1,2-Dibromoethane	0.047	0.16 U	0.15 U
1,2-Dichlorobenzene	2100	0.16 U	0.15 U
1,2-Dichloropropane	2.8	0.16 U	0.15 U
1,3,5-Trimethylbenzene	NS	0.82 U	0.75
1,3-Dichlorobenzene	NS	0.16 U	0.15 U
1,4-Dioxane	5.6	0.82 U	0.75 U
2-Butanone (MEK)	52000	8.2 U	7.5 U
2-Hexanone	310	0.82 U	0.75 U
4-Ethyltoluene	NS	0.82 U	0.75 U
4-Methyl-2-pentanone	31000	0.82 U	0.75 U
Acetone	320000	17	25
Bromoform	26	0.82 U	0.75 U
Bromomethane	52	0.33 U	0.30 U
Chlorobenzene	520	0.16 U	0.15 U
Chloroethane	100000	0.33 U	0.3 U
Chloromethane	940	0.46	0.49
cis-1,2-Dichloroethene	NS	0.16 U	0.15 U
cis-1,3-Dichloropropene	NS	0.82 U	0.75 U
Cyclohexane	63000	1.6 U	1.5 U
Dichlorodifluoromethane (CFC 12)	1000	2.1	2.1
Ethyl Acetate	730	4.2	3.9
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	0.75 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional	239-0615-0092	239-0615-0093
Location	Screening	Unit 033	Unit033
Sub Location	Level	AMB	LR
Matrix	Air	Air	Air
Sample Date		6/10/2015	6/10/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0 82 U	0.74 U
n-Hexane	7300	0 82 U	1 2
2-Propanol (Isopropyl Alcohol)	73000	8 2 U	7 4 U
m,p-Xylenes	1000	1.1	1 4
D chloromethane (Methylene Chloride)	1000	0 82 U	0 74 U
Methyl tert-Butyl Ether	110	0 16 U	0 15 U
Naphthalene	0.83	0.98	0.74 U
o-Xylene	1000	0 82 U	0 78
Propene	31000	1 3	1 3
Styrene	10000	0 82 U	1 4
Tetrahydrofuran (THF)	21000	0 82 U	0 74 U
Toluene	52000	4 9	2 9
trans-1,2-Dichloroethene	NS	0 16 U	0.15 U
trans-1,3-Dichloropropene	NS	0 82 U	0 74 U
Trichlorofluoromethane (CFC 11)	7300	1 3	2.0
Vinyl Acetate	2100	8 2 U	7 4 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	270	550
Methane	NS	1.2	14
Helium	NS	NA	NA

VOC volatile organic compounds
µg/m³ micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U not detected above specified reporting limit, J - estimated
NS - not specified, NA not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Air	239-0615-0092 Unit 033 AMB Air 6/10/2015 VOC	239-0615-0093 Unit 033 LR Air 6/10/2015 VOC
Analyte	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.53	0.63
1,3-Butadiene	0.80	0.33 U	0.29 U
Carbon Tetrachloride	4.1	0.47	0.47
Chloroform	102	0.37	0.75
Dibromochloromethane	1	0.16 U	0.15 U
1,4-Dichlorobenzene	2.5	0.16 U	7.2
1,2-Dichloroethane	1.1	0.16 U	1.1
Ethylbenzene	11	0.82 U	0.74 U
Tetrachloroethene	42	0.16 U	0.15 U
Trichloroethene (TCE)	2.1	0.16 U	0.15 U
Vinyl Chloride	1.6	0.16 U	0.15 U
1,1,1-Trichloroethane (TCA)	52000	0.16 U	0.15 U
1,1,2,2-Tetrachloroethane	0.48	0.16 U	0.15 U
1,1,2-Trichloroethane	1.8	0.16 U	0.15 U
1,1,2-Trichlorotrifluoroethane	310000	0.55	0.56
1,1-Dichloroethane (1,1-DCA)	18	0.16 U	0.15 U
1,1-Dichloroethene (1,1-DCE)	2100	0.16 U	0.15 U
1,2,3-Trichloropropane	3.1	0.82 UJ	0.74 UJ
1,2,4-Trimethylbenzene	73	0.82 U	3.2
1,2-Dibromoethane	0.047	0.16 U	0.15 U
1,2-Dichlorobenzene	2100	0.16 U	0.15 U
1,2-Dichloropropane	2.8	0.16 U	0.15 U
1,3,5-Trimethylbenzene	NS	0.82 U	1.0
1,3-Dichlorobenzene	NS	0.16 U	0.15 U
1,4-Dioxane	5.6	0.82 U	0.74 U
2-Butanone (MEK)	52000	8.2 U	7.4 U
2-Hexanone	310	0.82 U	0.74 U
4-Ethyltoluene	NS	0.82 U	0.74 U
4-Methyl-2-pentanone	31000	0.82 U	0.74 U
Acetone	320000	9.6	36
Bromoform	26	0.82 U	0.74 U
Bromomethane	52	0.33 U	0.29 U
Chlorobenzene	520	0.16 U	0.15 U
Chloroethane	100000	0.33 U	0.29 U
Chloromethane	940	0.51	0.62 J
cis-1,2-Dichloroethene	NS	0.16 U	0.15 U
cis-1,3-Dichloropropene	NS	0.82 U	0.74 U
Cyclohexane	63000	1.6 U	1.5 U
Dichlorodifluoromethane (CFC 12)	1000	2.1	2.1
Ethyl Acetate	730	3.1	7.2
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	0.74 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Sample Number	Regional	239-0615-0110
Location	Screening	Unit 033
Sub Location	Level	SG
Matrix	Soil Gas	Soil Gas
Sample Date		6/10/2015
Analysis		VOC
Analyte	µg/m^3	µg/m^3
Cyclohexane	630000	12
Dichlorodifluoromethane (CFC 12)	10000	1.3
Ethyl Acetate	7300	1.4 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.69 U
n-Heptane	NS	32
n-Hexane	73000	53
2-Propanol (Isopropyl Alcohol)	730000	6.9 U
m,p-Xylenes	10000	41
Dichloromethane (Methylene Chloride)	10000	1.5
Methyl tert-Butyl Ether	1100	0.14 U
Naphthalene	8.3	1.4
o-Xylene	10000	15
Propene	310000	430
Styrene	100000	0.76
Tetrahydrofuran (THF)	210000	0.69 U
Toluene	520000	58
trans-1,2-Dichloroethene	NS	0.14 U
trans-1,3-Dichloropropene	NS	0.69 U
Trichlorofluoromethane (CFC 11)	73000	0.89
Vinyl Acetate	21000	6.9 U
Analysis	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	2000
Methane	NS	5.9
Helium	NS	270000

VOC - volatile organic compounds

µg/m^3 - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

Exemption 6 Personal Privacy

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Soil Gas	239-0615-0110 Unit 033 SG Soil Gas 6/10/2015 VOC
Analyte	µg/m³	µg/m³
Benzene	31	9.2
1,3-Butadiene	8.0	11
Carbon Tetrachloride	41	0.51
Chloroform	1020	1.7
Dibromochloromethane	10	0.14 U
1,4-Dichlorobenzene	25	0.35
1,2-Dichloroethane	11	0.14 U
Ethylbenzene	110	12
Tetrachloroethene	420	1.8
Trichloroethene (TCE)	21	0.14
Vinyl Chloride	16	0.14 U
1,1,1-Trichloroethane (TCA)	520000	0.14
1,1,2,2-Tetrachloroethane	4.8	0.14 U
1,1,2-Trichloroethane	18	0.14 U
1,1,2-Trichlorotrifluoroethane	3100000	0.31
1,1-Dichloroethane (1,1-DCA)	180	0.14 U
1,1-Dichloroethene (1,1-DCE)	21000	0.14 U
1,2,3-Trichloropropane	31	0.69 UJ
1,2,4-Trimethylbenzene	730	20
1,2-Dibromoethane	0.47	0.14 U
1,2-Dichlorobenzene	21000	0.14 U
1,2-Dichloropropane	28	0.14 U
1,3,5-Trimethylbenzene	NS	6.9
1,3-Dichlorobenzene	NS	0.14 U
1,4-Dioxane	56	0.69 U
2-Butanone (MEK)	520000	6.9 U
2-Hexanone	3100	0.69 U
4-Ethyltoluene	NS	5.7
4-Methyl-2-pentanone	310000	0.69 U
Acetone	3200000	11
Bromoform	260	0.69 U
Bromomethane	520	0.28 U
Chlorobenzene	5200	0.14 U
Chloroethane	1000000	0.28 U
Chloromethane	9400	0.28 U
cis-1,2-Dichloroethene	NS	0.14 U
cis-1,3-Dichloropropene	NS	0.69 U

management level. 1,4-dichlorobenzene was not detected at elevated concentrations in the soil gas, indicating that common household products may be contributing to the levels in the indoor air and crawl space. 1,4-dichlorobenzene is commonly found in cleaning products and mothballs. Naphthalene was detected above initial screening levels in the ambient air but was below health-based risk management levels.

Compound	Soil Gas Sampling Results		Soil Gas Vapor Intrusion Screening Level	Indoor Air (Crawl Space) Results	Indoor Air (Crawl Space) Results Duplicate	Indoor Air (First Floor) Results	Ambient Air Results	Air Vapor Intrusion Screening Level
	Dec. 2014	June 2015		June 2015				
1,3-Butadiene	28	11	8.0					0.81
1,4-Dichlorobenzene				5.2	5.3	7.2		2.5
Naphthalene							.98	.83

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because all results have remained below health-based risk management screening levels, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

Enclosure

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

REDACTED

Exempt... (A) Interference with Enforcement Proceedings
... (B) Right to Fair Trial
(C) Unwanted Invasion of Personal Privacy

December 16, 2015

Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) indoor air, two (2) crawl space, (1) ambient (outdoor) air, and one (1) soil gas sample were collected at your property for a total of five (5) samples in June 2015. Due to potential concerns about data quality, EPA attempted a second soil gas sample in July 2015 for comparison. Unusually wet conditions prevented a second soil gas sample from being successfully collected at that time. However, comparisons of the June and July 2015 soil gas results on those homes where it was successful indicate that the June 2015 data is satisfactory. The indoor air and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the exceedances from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was not detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Three (3) constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,4-dichlorobenzene, and naphthalene). 1,3- butadiene was detected at levels above initial screening levels in the soil gas but there were no exceedances in the crawl space or living space indoor air. 1,4-dichlorobenzene was detected above the initial screening levels in the crawl space and living space indoor air but were below a health-based risk

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional	239-0615-0084	239-0615-0086	239-0615-0085
Location	Screening	Unit 023	Unit 023	Unit 023
Sub Location	Level	AMB	CS	LR
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.68	1.9 U	0.82 U
n-Hexane	7300	1.8	1.9 U	0.82 U
2-Propanol (Isopropyl Alcohol)	73000	9.6	33	23
m,p-Xylenes	1000	1.8	2.5	0.82 U
Dichloromethane (Methylene Chloride)	1000	0.66 U	1.9 U	0.82 U
Methyl tert-Butyl Ether	110	0.13 U	0.38 U	0.16 U
Naphthalene	0.83	0.66 U	6.5	0.82 U
o-Xylene	1000	0.66 U	1.9 U	0.82 U
Propene	31000	3.3	4.9	6.1
Styrene	10000	0.66 U	1.9 U	0.82 U
Tetrahydrofuran (THF)	21000	0.66 U	1.9 U	0.82 U
Toluene	52000	5.8	25	1.8
trans-1,2-Dichloroethene	NS	0.13 U	0.38 U	0.16 U
trans-1,3-Dichloropropene	NS	0.66 U	1.9 U	0.82 U
Trichlorofluoromethane (CFC 11)	7300	1.3	1.3	1.3
Vinyl Acetate	2100	6.6 U	19 U	8.2 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	450	570	660
Methane	NS	2.2	2.1	2.5
Helium	NS	NA	NA	NA

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Exemption 6 Personal Privacy

Sample Number	Regional Screening Level	239-0615-0084	239-0615-0086	239-0615-0085
Location		Unit 023	Unit 023	Unit 023
Sub Location		AMB	CS	LR
Matrix		Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.61	0.62	0.51
1,3-Butadiene	0.8	0.26 U	0.76 U	0.33 U
Carbon Tetrachloride	4.1	0.48	0.42	0.54
Chloroform	102	0.18	0.92	0.53
Dibromochloromethane	1.0	0.13 U	0.38 U	0.16 U
1,4-Dichlorobenzene	2.5	0.13 U	3.9	310
1,2-Dichloroethane	1.1	0.2	1.0	1.6
Ethylbenzene	11	0.66 U	1.9 U	0.82 U
Tetrachloroethene	42	0.13 U	0.38 U	0.16 U
Trichloroethene (TCE)	2.1	0.13 U	0.38 U	0.16 U
Vinyl Chloride	1.6	0.13 U	0.38 U	0.16 U
1,1,1-Trichloroethane (TCA)	52000	0.13 U	0.38 U	0.16 U
1,1,2,2-Tetrachloroethane	0.48	0.13 U	0.38 U	0.16 U
1,1,2-Trichloroethane	1.8	0.13 U	0.38 U	0.16 U
1,1,2-Trichlorotrifluoroethane	310000	0.55	0.51	0.54
1,1-Dichloroethane (1,1-DCA)	18	0.13 U	0.38 U	0.16 U
1,1-Dichloroethene (1,1-DCE)	2100	0.13 U	0.38 U	0.16 U
1,2,3-Trichloropropane	3.1	0.66 UJ	1.9 UJ	0.82 UJ
1,2,4-Trimethylbenzene	73	0.68	1.9 U	0.82 U
1,2-Dibromoethane	0.047	0.13 U	0.38 U	0.16 U
1,2-Dichlorobenzene	2100	0.13 U	0.38 U	0.16 U
1,2-Dichloropropane	2.8	0.13 U	0.38 U	0.16 U
1,3,5-Trimethylbenzene	NS	0.66 U	1.9 U	0.82 U
1,3-Dichlorobenzene	NS	0.13 U	0.38 U	0.16 U
1,4-Dioxane	5.6	0.66 U	1.9 U	0.82 U
2-Butanone (MEK)	52000	6.6 U	19 U	8.2 U
2-Hexanone	310	0.66 U	1.9 U	0.82 U
4-Ethyltoluene	NS	0.66 U	1.9 U	0.82 U
4-Methyl-2-pentanone	31000	0.66 U	1.9 U	0.82 U
Acetone	320000	12	19 U	19
Bromoform	26	0.66 U	1.9 U	0.82 U
Bromomethane	52	0.26 U	0.76 U	0.33 U
Chlorobenzene	520	0.13 U	0.38 U	0.16 U
Chloroethane	100000	0.26 U	0.76 U	0.33 U
Chloromethane	940	0.43	0.76 U	0.45
cis-1,2-Dichloroethene	NS	0.13 U	0.38 U	0.16 U
cis-1,3-Dichloropropene	NS	0.66 U	1.9 U	0.82 U
Cyclohexane	63000	1.3 U	3.8 U	1.6 U
Dichlorodifluoromethane (CFC 12)	1000	2.1	1.9	2.1
Ethyl Acetate	730	5.3	18	2.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.66 U	1.9 U	0.82 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional	239-0615-0107
Location	Screening	Unit 023
Sub Location	Level	SG
Matrix	Soil Gas	Soil Gas
Sample Date		6/10/2015
Analysis		VOC
Analyte	µg/m³	µg/m³
Cyclohexane	630000	7.5
Dichlorodifluoromethane (CFC 12)	10000	1.9
Ethyl Acetate	7300	3.6
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.93 U
n-Heptane	NS	26
n-Hexane	73000	41
2-Propanol (Isopropyl Alcohol)	730000	9.3 U
m,p-Xylenes	10000	41
Dichloromethane (Methylene Chloride)	10000	1.4
Methyl tert-Butyl Ether	1100	0.19 U
Naphthalene	8.3	2.3
o-Xylene	10000	14
Propene	310000	410
Styrene	100000	0.93 U
Tetrahydrofuran (THF)	210000	0.93 U
Toluene	520000	59
trans-1,2-Dichloroethene	NS	0.19 U
trans-1,3-Dichloropropene	NS	0.93 U
Trichlorofluoromethane (CFC 11)	73000	1.3
Vinyl Acetate	21000	9.3 U
Analysis	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	970
Methane	NS	3.7
Helium	NS	120000

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional Screening Level	239-0615-0107
Location		Unit 023
Sub-Location		SG
Matrix	Soil Gas	Soil Gas
Sample Date		6/10/2015
Analysis		VOC
Analyte	µg/m³	µg/m³
Benzene	31	8.5
1,3-Butadiene	8.0	15
Carbon Tetrachloride	41	0 44
Chloroform	1020	8.2
Dibromochloromethane	10	0.19 U
1,4-Dichlorobenzene	25	0.54
1,2-Dichloroethane	11	0.19 U
Ethylbenzene	110	12
Tetrachloroethene	420	1.6
Trichloroethene (TCE)	21	0.29
Vinyl Chloride	16	0.19 U
1,1,1-Trichloroethane (TCA)	520000	0.19 U
1,1,2,2-Tetrachloroethane	4.8	0.19 U
1,1,2-Trichloroethane	18	0.19 U
1,1,2-Trichlorotrifluoroethane	3100000	0.54
1,1-Dichloroethane (1,1-DCA)	180	0.19 U
1,1-Dichloroethene (1,1-DCE)	21000	0.19 U
1,2,3-Trichloropropane	31	0.93 UJ
1,2,4-Trimethylbenzene	730	16
1,2-Dibromoethane	0.47	0.19 U
1,2-Dichlorobenzene	21000	0.19 U
1,2-Dichloropropane	28	0.19 U
1,3,5-Trimethylbenzene	NS	6.2
1,3-Dichlorobenzene	NS	0.19 U
1,4-Dioxane	56	0.93 U
2-Butanone (MEK)	520000	9.3 U
2-Hexanone	3100	0.93 U
4-Ethyltoluene	NS	4.8
4-Methyl-2-pentanone	310000	0.93 U
Acetone	3200000	12
Bromoform	260	0.93 U
Bromomethane	520	0.37 U
Chlorobenzene	5200	0.19 U
Chloroethane	1000000	0.37 U
Chloromethane	9400	0.37 U
cis-1,2-Dichloroethene	NS	0.19 U
cis-1,3-Dichloropropene	NS	0.93 U

exceedances in the crawl space or living space indoor air. 1,2-dichloroethane, and naphthalene were detected above the initial screening levels in the living space but were below a health-based risk management level in the indoor air. Neither 1,2-dichloroethane, 1,4-dichlorobenzene, and naphthalene were detected at elevated concentrations in the soil gas, indicating that common household products may be contributing to the levels in the indoor air.. These constituents are frequently found in cleaning products and mothballs.

Compound	Soil Gas Sampling Results	Soil Gas Sampling Results	Soil Gas Vapor Intrusion Screening Level	Indoor Air (First Floor) Results	Indoor Air (Crawl Space) Results	Indoor Air (First Floor) Results	Air Vapor Intrusion Screening Level
	Dec. 2014	June 2015		Nov 2014	June 2015		
1,3-Butadiene	35	15	8.0				0.81
1,2-Dichloroethane				1.2		1.6	1.1
1,4-Dichlorobenzene				14	3.9	310	2.5
Naphthalene					6.5		.83

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because the data show that the chemicals detected in indoor air are not originating from the subsurface vapors, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

Enclosures

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

REDACTED

December 16, 2015

Exemption 7 ____ (A) Interference with Enforcement Proceedings
____ (B) Right to Fair Trial
Y (C) Unwanted Invasion of Personal Privacy

Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) crawl space air, one (1) indoor air, one (1) ambient (outdoor) air, and one (1) soil gas sample were collected at your property for a total of four (4) samples in June 2015. Due to potential concerns about data quality, EPA attempted a second soil gas sample in July 2015 for comparison. Unusually wet conditions prevented a second soil gas sample from being successfully collected at that time. However, comparisons of the June and July 2015 soil gas results on those homes where it was successful indicate that the June 2015 data is satisfactory. The crawl space air, indoor air, and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the results from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was **not** detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Four constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,2-dichloroethane, 1,4-dichlorobenzene, and naphthalene). 1,3- butadiene was detected at levels above initial screening levels in the soil gas but there were no

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

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Sample Number	Regional	239-0615-0100	239-0615-0099	239-0615-0098
Location	Screening	Unit 015	Unit 015	Unit 015
Sub Location	Level	AMB	CS	LR
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.82 U	3.9	16
n-Hexane	7300	0.82 U	9.3	25
2-Propanol (Isopropyl Alcohol)	73000	8.2 U	13 U	75
m,p-Xylenes	1000	1.3	11	34
Dichloromethane (Methylene Chloride)	1000	0.82 U	1.3 U	0.83 U
Methyl tert-Butyl Ether	110	0.16 U	0.26 U	0.17 U
Naphthalene	0.83	0.82 U	1.3 U	0.93
o-Xylene	1000	0.82 U	4.3	12
Propene	31000	0.82 U	1.3 U	0.83 U
Styrene	10000	0.82 U	1.3 U	1.2
Tetrahydrofuran (THF)	21000	0.82 U	1.3 U	0.83 U
Toluene	52000	3.9	15	40
trans-1,2-Dichloroethene	NS	0.16 U	0.26 U	0.17 U
trans-1,3-Dichloropropene	NS	0.82 U	1.3 U	0.83 U
Trichlorofluoromethane (CFC 11)	7300	1.6	3.3	3.8
Vinyl Acetate	2100	8.2 U	13 U	8.6
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	540	910	1200
Methane	NS	2.4	2.8	2.7
Helium	NS	NA	NA	NA

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

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Sample Number	Regional Screening Level	239-0615-0100	239-0615-0099	239-0615-0098
Location		Unit 015	Unit 015	Unit 015
Sub Location		AMB	CS	LR
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.55	1.0	2.2
1,3-Butadiene	0.8	0.33 U	0.51 U	1.0
Carbon Tetrachloride	4.1	0.64	0.6	0.83
Chloroform	102	0.17	0.76	1.0
Dibromochloromethane	1.0	0.16 U	0.26 U	0.22
1,4-Dichlorobenzene	2.5	0.16 U	0.26 U	0.17 U
1,2-Dichloroethane	1.1	0.16 U	0.69	1.2
Ethylbenzene	11	0.82 U	2.9	9.1
Tetrachloroethene	42	0.16 U	0.26 U	0.17 U
Trichloroethene (TCE)	2.1	0.16 U	0.26 U	0.17 U
Vinyl Chloride	1.6	0.16 U	0.26 U	0.17 U
1,1,1-Trichloroethane (TCA)	52000	0.16 U	0.26 U	0.17 U
1,1,2,2-Tetrachloroethane	0.48	0.16 U	0.26 U	0.17 U
1,1,2-Trichloroethane	1.8	0.16 U	0.26 U	0.17 U
1,1,2-Trichlorotrifluoroethane	310000	0.67	0.69	0.60
1,1-Dichloroethane (1,1-DCA)	18	0.16 U	0.26 U	0.17 U
1,1-Dichloroethene (1,1-DCE)	2100	0.16 U	0.26 U	0.17 U
1,2,3-Trichloropropane	3.1	0.82 UJ	1.3 UJ	0.83 UJ
1,2,4-Trimethylbenzene	73	0.82 U	4.6	14
1,2-Dibromoethane	0.047	0.16 U	0.26 U	0.17 U
1,2-Dichlorobenzene	2100	0.16 U	0.26 U	0.17 U
1,2-Dichloropropane	2.8	0.16 U	0.26 U	0.17 U
1,3,5-Trimethylbenzene	NS	0.82 U	1.3 U	3.6
1,3-Dichlorobenzene	NS	0.16 U	0.26 U	0.17 U
1,4-Dioxane	5.6	0.82 U	1.3 U	0.83 U
2-Butanone (MEK)	52000	8.2 U	13 U	13
2-Hexanone	310	0.82 U	1.3 U	0.83 U
4-Ethyltoluene	NS	0.82 U	1.3 U	3.5
4-Methyl-2-pentanone	31000	0.82 U	1.3 U	0.83
Acetone	320000	13	34	140
Bromoform	26	0.82 U	1.3 U	0.83 U
Bromomethane	52	0.33 U	0.51 U	0.33 U
Chlorobenzene	520	0.16 U	0.26 U	0.17 U
Chloroethane	100000	0.33 U	0.51 U	0.33 U
Chloromethane	940	0.35	0.51 U	0.51
cis-1,2-Dichloroethene	NS	0.16 U	0.26 U	0.17 U
cis-1,3-Dichloropropene	NS	0.82 U	1.3 U	0.83 U
Cyclohexane	63000	1.6 U	2.6 U	2.3
Dichlorodifluoromethane (CFC 12)	1000	2.8	3.1	2.4
Ethyl Acetate	730	2.6	4.9	15
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	1.3 U	0.83 U

June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
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Sample Number	Regional	239-0615-0108
Location	Screening	Unit 015
Sub Location	Level	SG
Matrix	Soil Gas	Soil Gas
Sample Date		6/10/2015
Analysis		VOC
Analyte	µg/m^3	µg/m^3
Cyclohexane	630000	8.7
Dichlorodifluoromethane (CFC 12)	10000	2.2
Ethyl Acetate	7300	1.7 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.87 U
n-Heptane	NS	17
n-Hexane	73000	57
2-Propanol (Isopropyl Alcohol)	730000	8.7 U
m,p-Xylenes	10000	29
Dichloromethane (Methylene Chloride)	10000	0.98
Methyl tert-Butyl Ether	1100	0.17 U
Naphthalene	8.3	1.6
o-Xylene	10000	10
Propene	310000	670
Styrene	100000	0.87 U
Tetrahydrofuran (THF)	210000	0.87 U
Toluene	520000	40
trans-1,2-Dichloroethene	NS	0.17 U
trans-1,3-Dichloropropene	NS	0.87 U
Trichlorofluoromethane (CFC 11)	73000	1.2
Vinyl Acetate	21000	8.7 U
Analysis	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	2000
Methane	NS	8.9
Helium	NS	210000

VOC - volatile organic compounds

µg/m^3 - micrograms per cubic meter, ppmv - parts per million by volume, % - percent

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NS - not specified, NA-not analyzed

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June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Sample Number Location Sub Location Matrix Sample Date Analysis	Regional Screening Level Soil Gas	239-0615-0108 Unit 015 SG Soil Gas 6/10/2015 VOC
Analyte	µg/m³	µg/m³
Benzene	31	7.2
1,3-Butadiene	8.0	17
Carbon Tetrachloride	41	1800
Chloroform	1020	170
Dibromochloromethane	10	0.17 U
1,4-Dichlorobenzene	25	0.42
1,2-Dichloroethane	11	0.17 U
Ethylbenzene	110	8.4
Tetrachloroethene	420	1.7
Trichloroethene (TCE)	21	0.17 U
Vinyl Chloride	16	0.17 U
1,1,1-Trichloroethane (TCA)	520000	13
1,1,2,2-Tetrachloroethane	4.8	0.17 U
1,1,2-Trichloroethane	18	0.17 U
1,1,2-Trichlorotrifluoroethane	3100000	0.52
1,1-Dichloroethane (1,1-DCA)	180	0.17 U
1,1-Dichloroethene (1,1-DCE)	21000	0.17 U
1,2,3-Trichloropropane	31	0.87 UJ
1,2,4-Trimethylbenzene	730	11
1,2-Dibromoethane	0.47	0.17 U
1,2-Dichlorobenzene	21000	0.17 U
1,2-Dichloropropane	28	0.17 U
1,3,5-Trimethylbenzene	NS	4.3
1,3-Dichlorobenzene	NS	0.17 U
1,4-Dioxane	56	0.87 U
2-Butanone (MEK)	520000	8.7 U
2-Hexanone	3100	0.87 U
4-Ethyltoluene	NS	3.7
4-Methyl-2-pentanone	310000	0.87 U
Acetone	3200000	8.7 U
Bromoform	260	0.87 U
Bromomethane	520	0.35 U
Chlorobenzene	5200	0.17 U
Chloroethane	1000000	0.35 U
Chloromethane	9400	0.35 U
cis-1,2-Dichloroethene	NS	0.17 U
cis-1,3-Dichloropropene	NS	0.87 U

Neither naphthalene nor 1,2-dichlorethane were detected at elevated concentrations in the soil gas or crawl space air indicating that common household products may be contributing to the levels in the living space indoor air.. These constituents are frequently found in cleaning products and mothballs. 1,3-butadiene may also be a by-product of cigarette smoke.

Compound	Soil Gas Sampling Results	Soil Gas Sampling Results	Soil Gas Vapor Intrusion Screening Level	Indoor Air (First Floor) Results	Indoor Air (First Floor) Results	Air Vapor Intrusion Screening Level
	Dec. 2014	June 2015		Nov 2014	June 2015	
1,3-Butadiene	34	17	8.0		1.0	0.81
1,2-Dichloroethane				1.1	1.2	1.1
Carbon Tetrachloride		1800	41			
Napthalene					.93	.83

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because all results have remained below health-based risk management screening levels, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

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Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) crawl space air, one (1) indoor air, one (1) ambient (outdoor) air, and one (1) soil gas sample were collected at your property for a total of four (4) samples in June 2015. EPA attempted a second soil gas sample in July 2015 for comparison. Due to unusually heavy rains, no soil gas sample was successfully collected. The crawl space air, indoor air, and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the exceedances from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was **not** detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Four (4) constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,2-dichloroethane, carbon tetrachloride, and naphthalene). 1,3-butadiene was detected at levels above initial screening levels in the soil gas and living space indoor air but were below a health-based risk management level. Carbon tetrachloride was detected at elevated levels in the soil gas but not in the crawl space or living space indoor air, and is not of concern. 1,2-dichloroethane, and naphthalene were detected above the initial screening levels in the living space but were below a health-based risk management level in the indoor air.

TABLE 2

June and July 2015 Air Sampling Results

Lee's Lane Landfill Site Investigation

Exemption 6 Personal Privacy November 2015

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Sample Number	239-0615-0106	Regional
Location	Unit 034	Screening
Sub Location	SG	Level
Matrix	Soil Gas	Soil Gas
Sample Date	6/10/2015	
Analysis	VOC	
Analyte	µg/m³	µg/m³
Cyclohexane	1.7 U	630000
Dichlorodifluoromethane (CFC 12)	4.1	10000
Ethyl Acetate	2.9	7300
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	3.1	NS
n-Heptane	0.85 U	NS
n-Hexane	0.85 U	73000
2-Propanol (Isopropyl Alcohol)	8.5 U	730000
m,p-Xylenes	0.85 U	10000
Dichloromethane (Methylene Chloride)	0.85 U	10000
Methyl tert-Butyl Ether	0.17 U	1100
Naphthalene	1.0	8.3
o-Xylene	0.85 U	10000
Propene	4.4	310000
Styrene	0.85 U	100000
Tetrahydrofuran (THF)	0.85 U	210000
Toluene	2.1	520000
trans-1,2-Dichloroethene	0.17 U	NS
trans-1,3-Dichloropropene	0.85 U	NS
Trichlorofluoromethane (CFC 11)	1.9	73000
Vinyl Acetate	8.5 U	21000
Analysis	Fixed Gas	Fixed Gas
Carbon Dioxide	2600	NS
Methane	480	NS
Helium	540	NS

VOC - volatile organic compounds

µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % percent

U - not detected above specified reporting limit, J - estimated

NS - not specified, NA-not analyzed

TABLE 2

June and July 2015 Air Sampling Results

Lee's Lane Landfill Site Investigation

November 2015

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Exemption 6 Personal Privacy

Sample Number	239-0615-0106	Regional
Location	Unit 034	Screening
Sub Location	SG	Level
Matrix	Soil Gas	Soil Gas
Sample Date	6/10/2015	
Analysis	VOC	
Analyte	µg/m³	µg/m³
Benzene	0.58	31
1,3-Butadiene	0.34 U	8.0
Carbon Tetrachloride	2.6	41
Chloroform	0.17 U	1020
Dibromochloromethane	0.17 U	10
1,4-Dichlorobenzene	0.17 U	25
1,2-Dichloroethane	0.17 U	11
Ethylbenzene	0.85 U	110
Tetrachloroethene	4.5	420
Trichloroethene (TCE)	0.17 U	21
Vinyl Chloride	0.17 U	16
1,1,1-Trichloroethane (TCA)	17	520000
1,1,2,2-Tetrachloroethane	0.17 U	4.8
1,1,2-Trichloroethane	0.17 U	18
1,1,2-Trichlorotrifluoroethane	0.62	3100000
1,1-Dichloroethane (1,1-DCA)	0.17 U	180
1,1-Dichloroethene (1,1-DCE)	0.17 U	21000
1,2,3-Trichloropropane	0.85 UJ	31
1,2,4-Trimethylbenzene	0.85 U	730
1,2-Dibromoethane	0.17 U	0.47
1,2-Dichlorobenzene	0.17 U	21000
1,2-Dichloropropane	0.17 U	28
1,3,5-Trimethylbenzene	0.85 U	NS
1,3-Dichlorobenzene	0.17 U	NS
1,4-Dioxane	0.85 U	56
2-Butanone (MEK)	8.5 U	520000
2-Hexanone	0.85 U	3100
4-Ethyltoluene	0.85 U	NS
4-Methyl-2-pentanone	0.85 U	310000
Acetone	8.5 U	3200000
Bromoform	0.85 U	260
Bromomethane	0.34 U	520
Chlorobenzene	0.17 U	5200
Chloroethane	0.34 U	1000000
Chloromethane	0.34 U	9400
cis-1,2-Dichloroethene	0.17 U	NS
cis-1,3-Dichloropropene	0.85 U	NS

Compound	Soil Gas Sampling Results	Soil Gas Vapor Intrusion Screening Level
	Dec. 2014	
1,3-Butadiene	56	8.0

Notes:

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This sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

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REDACTED

December 16, 2015

Exemption 7(A) Interference with Enforcement Proceedings

Exemption 6 Personal Privacy (Unwarranted Invasion of Personal Privacy)

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted soil gas sampling on your property. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One (1) soil gas sample was at your property in June 2015. EPA attempted a second soil gas sample in July 2015 for comparison. Due to unusually heavy rains, no soil gas sample was successfully collected. However, comparisons of the June and July 2015 soil gas results on those homes where it was successful indicate that the June 2015 data is satisfactory. The crawl space air, indoor air, and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the exceedances from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was **not** detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. No constituents were found over screening levels in the June 2015 sampling event.

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

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Sample Number	Regional Screening	239-0615-0082	239-0615-0083	239-0615-0081
Location	Level	Unit 014	Unit 014	Unit 014
Sub Location		AMB	CS	LR
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.70 U	0.81 U	1.3
n-Hexane	7300	0.70 U	0.90	1.7
2-Propanol (Isopropyl Alcohol)	73000	7.0 U	8.1 U	31
m,p-Xylenes	1000	3.2	1.4	4.3
Dichloromethane (Methylene Chloride)	1000	0.70 U	1.2	2.1
Methyl tert-Butyl Ether	110	0.14 U	0.16 U	0.14 U
Naphthalene	0.83	0.70 U	0.81 U	1.5
o-Xylene	1000	1.4	0.84	1.4
Propene	31000	1.7	3.3	13
Styrene	10000	0.70 U	0.81 U	1.2
Tetrahydrofuran (THF)	21000	0.70 U	2.2	5.4
Toluene	52000	5.3	4.0	11
trans-1,2-Dichloroethene	NS	0.14 U	0.16 U	0.14 U
trans-1,3-Dichloropropene	NS	0.70 U	0.81 U	0.71 U
Trichlorofluoromethane (CFC-11)	7300	1.2	1.9	2.4
Vinyl Acetate	2100	7.0 U	8.1 U	26
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	490	600	700
Methane	NS	2.5	3.9	5.1
Helium	NS	NA	NA	NA

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

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June and July 2015 Air Sampling Results
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REDACTED

Sample Number	Regional Screening Level	239-0615-0082	239-0615-0083	239-0615-0081
Location		Unit 014	Unit 014	Unit 014
Sub Location		AM6	CS	LR
Matrix		Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.48	0.91	2.6
1,3-Butadiene	0.80	0.28 U	0.40	1.7
Carbon Tetrachloride	4.1	0.45	0.73	0.88
Chloroform	102	0.19	0.58	0.69
Dibromochloromethane	1.0	0.14 U	0.16 U	0.14 U
1,4-Dichlorobenzene	2.5	0.14 U	0.16 U	0.26
1,2-Dichloroethane	1.1	0.14 U	0.50	0.73
Ethylbenzene	11	0.73	0.81 U	1.5
Tetrachloroethene	42	0.14 U	0.16 U	0.14 U
Trichloroethene (TCE)	2.1	0.14 U	0.16 U	0.14 U
Vinyl Chloride	1.6	0.14 U	0.16 U	0.14 U
1,1,1-Trichloroethane (TCA)	52000	0.14 U	0.16 U	0.14 U
1,1,2,2-Tetrachloroethane	0.48	0.14 U	0.16 U	0.14 U
1,1,2-Trichloroethane	1.8	0.14 U	0.16 U	0.14 U
1,1,2-Trichlorotrifluoroethane	310000	0.56	0.58	0.58
1,1-Dichloroethane (1,1-DCA)	18	0.14 U	0.16 U	0.14 U
1,1-Dichloroethene (1,1-DCE)	2100	0.14 U	0.16 U	0.14 U
1,2,3-Trichloropropane	3.1	0.70 UJ	0.81 UJ	0.71 UJ
1,2,4-Trimethylbenzene	73	2.3	0.81 U	1.8
1,2-Dibromoethane	0.047	0.14 U	0.16 U	0.14 U
1,2-Dichlorobenzene	2100	0.14 U	0.16 U	0.14 U
1,2-Dichloropropane	2.8	0.14 U	0.16 U	0.14 U
1,3,5-Trimethylbenzene	NS	0.70 U	0.81 U	0.71 U
1,3-Dichlorobenzene	NS	0.14 U	0.16 U	0.14 U
1,4-Dioxane	5.6	0.70 U	0.81 U	0.71 U
2-Butanone (MEK)	52000	7.0 U	8.1 U	10
2-Hexanone	310	0.70 U	0.81 U	0.84
4-Ethyltoluene	NS	0.70 U	0.81 U	0.71 U
4-Methyl-2-pentanone	31000	0.70 U	0.81 U	0.73
Acetone	320000	9.5	47	150
Bromoform	26	0.70 U	0.81 U	0.71 U
Bromomethane	52	0.28 U	0.32 U	0.28 U
Chlorobenzene	520	0.14 U	0.16 U	0.14 U
Chloroethane	100000	0.28 U	0.32 U	0.28 U
Chloromethane	940	0.43	0.42	1.2
cis-1,2-Dichloroethene	NS	0.14 U	0.16 U	0.14 U
cis-1,3-Dichloropropene	NS	0.70 U	0.81 U	0.71 U
Cyclohexane	63000	1.4 U	1.6 U	1.4 U
Dichlorodifluoromethane (CFC 12)	1000	2.0	2.0	2.0
Ethyl Acetate	730	12	4.6	24
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.70 U	0.81 U	0.71 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional	239-0615-0104	239-0715-0085
Location	Screening	Unit 014	Unit 014
Sub Location	Level	SG	SG
Matrix	Soil Gas	Soil Gas	Soil Gas
Sample Date		6/10/2015	7/24/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
Cyclohexane	630000	1.8 U	1.6 U
Dichlorodifluoromethane (CFC 12)	10000	3.2	3.3
Ethyl Acetate	7300	1.8 U	1.6 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.91	1.1
n-Heptane	NS	1.1	1.2
n-Hexane	73000	1.9	4.0
2-Propanol (Isopropyl Alcohol)	730000	8.9 U	8.1 U
m,p-Xylenes	10000	7.0	1.1
Dichloromethane (Methylene Chloride)	10000	0.89 U	0.81 U
Methyl tert-Butyl Ether	1100	0.18 U	0.16 U
Naphthalene	8.3	1.5	2.2
o-Xylene	10000	2.7	0.81 U
Propene	310000	7.0	15
Styrene	100000	0.89 U	0.81 U
Tetrahydrofuran (THF)	210000	0.89 U	0.81 U
Toluene	520000	13	2.6
trans-1,2-Dichloroethene	NS	0.18 U	0.16 U
trans-1,3-Dichloropropene	NS	0.89 U	0.81 U
Trichlorofluoromethane (CFC 11)	73000	2.9	2.8
Vinyl Acetate	21000	11	8.1 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	59000	7.99
Methane	NS	8.5 U	0.16 U
Helium	NS	87000	100

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

Exemption 6 Personal Privacy

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Sample Number	Regional Screening Level	239-0615-0104	239-0715-0085
Location		Unit 014	Unit 014
Sub Location		SG	SG
Matrix	Soil Gas	Soil Gas	Soil Gas
Sample Date		6/10/2015	7/24/2015
Analysis		VOC	VOC
Analyte	ug/m³	µg/m³	µg/m³
Benzene	31	1.9	0.52 U
1,3-Butadiene	8.0	0.52	0.38
Carbon Tetrachloride	41	0.18 U	0.16 U
Chloroform	1020	1.1	1.2
Dibromochloromethane	10	0.18 U	0.16 U
1,4-Dichlorobenzene	25	0.18 U	0.16 U
1,2-Dichloroethane	11	0.18 U	0.16 U
Ethylbenzene	110	2.3	0.81 U
Tetrachloroethene	420	1.5	1.8
Trichloroethene (TCE)	21	0.37	0.16 U
Vinyl Chloride	16	0.18 U	0.16 U
1,1,1-Trichloroethane (TCA)	520000	3.7	5.5
1,1,2,2-Tetrachloroethane	4.8	0.18 U	0.16 U
1,1,2-Trichloroethane	18	0.18 U	0.16 U
1,1,2-Trichlorotrifluoroethane	3100000	0.52	0.59
1,1-Dichloroethane (1,1-DCA)	180	0.18 U	0.16 U
1,1-Dichloroethene (1,1-DCE)	21000	0.18 U	0.16 U
1,2,3-Trichloropropane	31	0.89 UJ	0.81 UJ
1,2,4-Trimethylbenzene	730	2.3	0.81 U
1,2-Dibromoethane	0.47	0.18 U	0.16 U
1,2-Dichlorobenzene	21000	0.18 U	0.16 U
1,2-Dichloropropane	28	0.18 U	0.16 U
1,3,5-Trimethylbenzene	NS	0.91	0.81 U
1,3-Dichlorobenzene	NS	0.18 U	0.16 U
1,4-Dioxane	56	0.89 U	0.81 U
2-Butanone (MEK)	520000	8.9 U	8.1 U
2-Hexanone	3100	1.0	1.2
4-Ethyltoluene	NS	0.89 U	0.81 U
4-Methyl-2-pentanone	310000	0.89 U	0.81 U
Acetone	3200000	23	19
Bromoform	260	0.89 U	0.81 U
Bromomethane	520	0.36 U	0.16 U
Chlorobenzene	5200	0.18 U	0.16 U
Chloroethane	1000000	0.36 U	0.16 U
Chloromethane	9400	0.36 U	0.32 U
cis-1,2-Dichloroethene	NS	0.18 U	0.16 U
cis-1,3-Dichloropropene	NS	0.89 U	0.81 U

Compound	Indoor Air (First Floor) Results	Indoor Air (First Floor) Results	Air Vapor Intrusion Screening Level
	Nov 2014	June 2015	
1,3-Butadiene	.98	1.7	0.81

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because all results have remained below health-based risk management screening levels, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler
Remedial Project Manager

Enclosures

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

December 16, 2015

REDACTED

Exemption 7 ____ (A) Interference with Enforcement Proceedi
____ (B) Right to Fair Trial
X (C) Unwanted Invasion of Personal Privacy

Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One crawl space air, one indoor air, one ambient (outdoor) air, and one soil gas sample were collected at your property for a total of four samples in June 2015. Due to potential concerns about data quality, a second soil gas sample was collected in July 2015 for comparison. The crawl space air, indoor air, and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the results from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was **not** detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. One (1) constituent, 1,3-butadiene, was detected in your results above EPA site-specific screening levels in the living space indoor air but were below a health-based risk management level. 1,3-butadiene was not detected at elevated levels in the soil gas or crawl space, indicating that common household products may be contributing to the levels in the living space indoor air. This constituent can be found in cigarette smoke.

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional	239-0615-0088	239-0615-0089	239-0615-0087
Location	Screening	Unit 030	Unit 030	Unit 030
Sub Location	Level	AMB	CS	LR
Matrix	Air	Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
n-Heptane	NS	0.91 U	0.67 U	5.4
n-Hexane	7300	0.91 U	0.67 U	1.4
2-Propanol (Isopropyl Alcohol)	73000	9.1 U	6.7 U	1300
m,p-Xylenes	1000	0.97	0.67 U	2.0
Dichloromethane (Methylene Chloride)	1000	0.91 U	0.67 U	0.83 U
Methyl tert-Butyl Ether	110	0.18 U	0.13 U	0.17 U
Naphthalene	0.83	0.91 U	0.67 U	0.83 U
o-Xylene	1000	0.91 U	0.67 U	0.83 U
Propene	31000	0.91 U	0.67 U	18
Styrene	10000	0.91 U	0.67 U	1.2
Tetrahydrofuran (THF)	21000	0.91 U	0.67 U	0.83 U
Toluene	52000	4.3	1.0	8.5
trans-1,2-Dichloroethene	NS	0.18 U	0.13 U	0.17 U
trans-1,3-Dichloropropene	NS	0.91 U	0.67 U	0.83 U
Trichlorofluoromethane (CFC 11)	7300	1.2	1.3	1.3
Vinyl Acetate	2100	9.1 U	6.7 U	8.3 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	400	460	740
Methane	NS	1.7	1.9	2.6
Helium	NS	NA	NA	NA

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional Screening Level	239-0615-0088	239-0615-0089	239-0615-0087
Location		Unit 030	Unit 030	Unit 030
Sub Location		AMB	CS	LR
Matrix		Air	Air	Air
Sample Date		6/10/2015	6/10/2015	6/10/2015
Analysis		VOC	VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³	µg/m³
Benzene	3.1	0.52	0.32	0.77
1,3-Butadiene	0.8	0.36 U	0.27 U	0.33 U
Carbon Tetrachloride	4.1	0.43	0.50	0.38
Chloroform	102	0.18 U	0.27	0.66
Dibromochloromethane	1.0	0.18 U	0.13 U	0.17 U
1,4-Dichlorobenzene	2.5	0.23	65	48
1,2-Dichloroethane	1.1	0.18 U	0.38	5.5
Ethylbenzene	11	0.91 U	0.67 U	0.83 U
Tetrachloroethene	42	0.18 U	0.13 U	0.17 U
Trichloroethene (TCE)	2.1	0.18 U	0.45	0.17
Vinyl Chloride	1.6	0.18 U	0.13 U	0.17 U
1,1,1-Trichloroethane (TCA)	52000	0.18 U	0.13 U	0.17 U
1,1,2,2-Tetrachloroethane	0.48	0.18 U	0.13 U	0.17 U
1,1,2-Trichloroethane	1.8	0.18 U	0.13 U	0.17 U
1,1,2-Trichlorotrifluoroethane	310000	0.55	0.56	0.55
1,1-Dichloroethane (1,1-DCA)	18	0.18 U	0.13 U	0.17 U
1,1-Dichloroethene (1,1-DCE)	2100	0.18 U	0.13 U	0.17 U
1,2,3-Trichloropropane	3.1	0.91 UJ	0.67 UJ	0.83 UJ
1,2,4-Trimethylbenzene	73	0.91 U	0.67 U	0.83 U
1,2-Dibromoethane	0.047	0.18 U	0.13 U	0.17 U
1,2-Dichlorobenzene	2100	0.18 U	0.13 U	0.17 U
1,2-Dichloropropane	2.8	0.18 U	0.13 U	0.17 U
1,3,5-Trimethylbenzene	NS	0.91 U	0.67 U	0.83 U
1,3-Dichlorobenzene	NS	0.18 U	0.13 U	0.17 U
1,4-Dioxane	5.6	0.91 U	0.67 U	0.83 U
2-Butanone (MEK)	52000	9.1 U	6.7 U	8.3 U
2-Hexanone	310	0.91 U	0.67 U	1.0
4-Ethyltoluene	NS	0.91 U	0.67 U	0.83 U
4-Methyl-2-pentanone	31000	0.91 U	0.67 U	0.83 U
Acetone	320000	9.2	6.7 U	86
Bromoform	26	0.91 U	0.67 U	0.83 U
Bromomethane	52	0.36 U	0.27 U	0.33 U
Chlorobenzene	520	0.18 U	0.13 U	0.17
Chloroethane	100000	0.36 U	0.27 U	0.33 U
Chloromethane	940	0.43	0.27 U	0.60
cis-1,2-Dichloroethene	NS	0.18 U	0.15	0.17 U
cis-1,3-Dichloropropene	NS	0.91 U	0.67 U	0.83 U
Cyclohexane	63000	1.8 U	1.3 U	1.7 U
Dichlorodifluoromethane (CFC 12)	1000	2.0	2.1	2.1
Ethyl Acetate	730	4.7	1.3 U	12
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.91 U	0.67 U	0.83 U

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

Exemption 6 Personal Privacy

REDACTED

Sample Number	Regional	239-0615-0109	239-0715-0084
Location	Screening	Unit 030	Unit 030
Sub Location	Level	SG	SG
Matrix	Soil Gas	Soil Gas	Soil Gas
Sample Date		6/10/2015	7/24/2015
Analysis		VOC	VOC
Analyte	µg/m³	µg/m³	µg/m³
Cyclohexane	630000	8.4	5.6
Dichlorodifluoromethane (CFC 12)	10000	1.5	2.3
Ethyl Acetate	7300	1.6 U	1.3 U
1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	NS	0.82 U	0.66 U
n-Heptane	NS	28	10
n-Hexane	73000	45	65
2-Propanol (Isopropyl Alcohol)	730000	8.2 U	6.6 U
m,p-Xylenes	10000	48	4.3
Dichloromethane (Methylene Chloride)	10000	1.1	0.66 U
Methyl tert-Butyl Ether	1100	0.16 U	0.13 U
Naphthalene	8.3	1.9	3.6
o-Xylene	10000	17	2.2
Propene	310000	530	490
Styrene	100000	0.82 U	1.1
Tetrahydrofuran (THF)	210000	0.82 U	0.96
Toluene	520000	60	17
trans-1,2-Dichloroethene	NS	0.16 U	0.13 U
trans-1,3-Dichloropropene	NS	0.82 U	0.66 U
Trichlorofluoromethane (CFC 11)	73000	1.0	1.1
Vinyl Acetate	21000	8.2 U	6.6 U
Analysis	Fixed Gas	Fixed Gas	Fixed Gas
Carbon Dioxide	NS	96	3.46
Methane	NS	6.4	0.13 U
Helium	NS	200000	20000

VOC - volatile organic compounds
µg/m³ - micrograms per cubic meter, ppmv - parts per million by volume, % - percent
U - not detected above specified reporting limit, J - estimated
NS - not specified, NA-not analyzed

TABLE 2
June and July 2015 Air Sampling Results
Lee's Lane Landfill Site Investigation
November 2015

REDACTED

Exemption 6 Personal Privacy

Sample Number:	Regional Screening Level:	239-0615-0109	239-0715-0084
Location:		Unit 030	Unit 030
Sub Location:		SG	SG
Matrix:	Soil/Gas	Soil Gas	Soil Gas
Sample Date:		6/10/2015	7/24/2015
Analysis:		VOC	VOC
Analyte:	µg/m³	µg/m³	µg/m³
Benzene	31	8.2	8.2
1,3-Butadiene	8.0	12	16
Carbon Tetrachloride	41	0.67	0.31
Chloroform	1020	1.4	6.8
Dibromochloromethane	10	0.16 U	0.13 U
1,4-Dichlorobenzene	25	0.46	0.43
1,2-Dichloroethane	11	0.16 U	0.13 U
Ethylbenzene	110	13	2.2
Tetrachloroethene	420	1.4	0.92
Trichloroethene (TCE)	21	0.25	0.13 U
Vinyl Chloride	16	0.16 U	0.13 U
1,1,1-Trichloroethane (TCA)	520000	0.38	0.16
1,1,2,2-Tetrachloroethane	4.8	0.16 U	0.13 U
1,1,2-Trichloroethane	18	0.16 U	0.13 U
1,1,2-Trichlorotrifluoroethane	3100000	0.41	0.49
1,1-Dichloroethane (1,1-DCA)	180	0.16 U	0.13 U
1,1-Dichloroethene (1,1-DCE)	21000	0.16 U	0.13 U
1,2,3-Trichloropropane	31	0.82 UJ	0.66 UJ
1,2,4-Trimethylbenzene	730	21	2.8
1,2-Dibromoethane	0.47	0.16 U	0.13 U
1,2-Dichlorobenzene	21000	0.16 U	0.13 U
1,2-Dichloropropane	28	0.16 U	0.13 U
1,3,5-Trimethylbenzene	NS	7.5	0.69
1,3-Dichlorobenzene	NS	0.16 U	0.13 U
1,4-Dioxane	56	0.82 U	0.66 U
2-Butanone (MEK)	520000	8.2 U	9.9
2-Hexanone	3100	0.82 U	3.1
4-Ethyltoluene	NS	5.9	1.0
4-Methyl-2-pentanone	310000	0.82 U	1.5
Acetone	3200000	11	36
Bromoform	260	0.82 U	0.66 U
Bromomethane	520	0.33 U	0.13 U
Chlorobenzene	5200	0.16 U	0.13 U
Chloroethane	1000000	0.33 U	0.13 U
Chloromethane	9400	0.33 U	0.26 U
cis-1,2-Dichloroethene	NS	0.16 U	0.13 U
cis-1,3-Dichloropropene	NS	0.82 U	0.66 U

the levels in the indoor air and crawl space. These constituents are frequently found in cleaning products and mothballs. 1,3-butadiene is also known to be a byproduct of cigarette smoke.

Compound	Soil Gas Sampling Results	Soil Gas Sampling Results	Soil Gas Sampling Results	Soil Gas Vapor Intrusion Screening Level	Indoor Air (First Floor) Results	Indoor Air (Crawl Space) Results	Indoor Air (First Floor) Results	Air Vapor Intrusion Screening Level
	Dec. 2014	June 2015	July 2015		Nov 2014	June 2015		
1,3-Butadiene	31	12	16	8.0				0.81
1,2-Dichloroethane							5.5	1.1
1,4-Dichlorobenzene					18	65	48	2.5

Notes:

- All results and screening levels are in ug/m^3 or micrograms per cubic meter
- Only compounds with a detection above the respective site-specific Vapor Intrusion Screening Levels are shown on this table.

For more information regarding risk assessment, please see EPA's website at http://epa.gov/riskassessment/basicinformation.htm#risk.

For general information about the Superfund program, which cleans up contaminated sites, please see http://www.epa.gov/superfund/.

For more information about vapor intrusion, please see EPA's web page at http://www.epa.gov/oswer/vaporintrusion/basic.html.

Because the data show that the chemicals detected in indoor air are not originating from the subsurface vapors, this sampling event concludes the vapor intrusion sampling investigation at your property. If you have any questions regarding your sampling results, please contact me at 800-435-9233 (toll-free) or 404-562-8870 or seadler.donna@epa.gov. You may also contact the Community Involvement Coordinator, Angela Miller, at 404-562-8561, or miller.angela@epa.gov.

Donna K. Seadler

Donna K. Seadler
Remedial Project Manager

Enclosures

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

December 16, 2015

REDACTED

Exemption 7 ___(A) Interference with Enforcement Proceedings
___(B) Right to Fair Trial
X (C) Unwarranted Invasion of Personal Privacy

Exemption 6 Personal Privacy

Subj: Analytical Results for June and July 2015 Sampling at

Dear

During June and July 2015, the U.S. Environmental Protection Agency (EPA) conducted air sampling and soil gas sampling at your home. The purpose of the original sampling, starting in 2014, was to determine whether volatile organic chemicals (VOCs) were present in the air near your home, in the air below your home, in the air inside your home, or in soil gases outside your home which may be related to the Lee's Lane Landfill Site (the Site). The sampling was also conducted to determine whether any unacceptable levels of exposure are occurring and whether any further response may be needed to protect human health. The most recent sampling event was done to compare seasonal changes from the November and December 2014 results.

One crawl space air, one indoor air, one ambient (outdoor) air, and one soil gas sample were collected at your property for a total of four samples in June 2015. Due to potential concerns about data quality, a second soil gas sample was collected in July 2015 for comparison. The crawl space air, indoor air, and ambient air samples were collected over a 24-hour period. The air samples were analyzed for volatile organic compounds (VOCs), including those chemicals found at or related to those at the Site.

The results are provided to you in two formats. There is a summary table below that compares only the constituents that were detected above the respective EPA Vapor Intrusion Screening Level (VISL). This table includes the results from the November and December 2014 sampling results, which you received earlier this year, for comparison. Enclosed with the letter is the laboratory data with every potential contaminant or constituent that EPA analyzed for in your samples, with any exceedance noted in bold red type. The EPA Vapor Intrusion Screening Levels (VISLs) referenced in the tables are based upon typical exposure factors and assume occupants of the building are exposed to air containing the chemical(s) of concern for 24 hours per day over a chronic duration (7 to 30-year period). Please note that any result on the laboratory data sheets with a "U" Qualifier was not detected in your samples.

The results from this investigation have been reviewed by an EPA, Region 4 human health toxicologist. Three (3) constituents were detected in your results above EPA site-specific screening levels (1,3-butadiene, 1,2-dichloroethane, and 1,4-dichlorobenzene). 1,3- butadiene was detected at levels above initial screening levels in the soil gas but not in the crawl space or living space indoor air. 1,2-dichloroethane and 1,4-dichlorobenzene were detected above the initial screening levels in the living space indoor air but were below a health-based risk management level. Neither 1,2-dichlorethane nor 1,4-dichlorobenze were detected at elevated concentrations in the soil gas, indicating that common household products may be contributing to